

THE ARCHITECT & BUILDING NEWS

30 DECEMBER 1954 · VOL. 206 · NO. 27 · ONE SHILLING WEEKLY

- STOW NEIGHBOURHOOD CENTRE, HARLOW
- WINDOW FURNITURE
- CURRENT MEASURED RATES

PUBLISHED IN LONDON SINCE 1854



Earning dollars in Canada —

At Toronto's 1954 International Trade Fair large orders for Brady Rolling Doors were booked on their stand, bringing more dollars to Britain. With an international reputation for reliability, Brady Rolling Doors are aiding British industry throughout the world.



This illustration of the Brady Stand at the Toronto Trade Fair shows a large F3 Rolling Door in the centre. On the left is a small grille with Shutter in front of it, and on the right an aluminium Rolling Shutter, all suitable for Bars and Service Openings

G. BRADY & CO. LTD MANCHESTER 4 Telephone COLlyhurst 2797/8

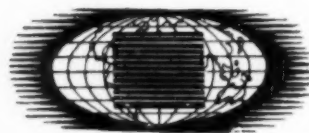
LONDON New Islington Works, Park Royal, N.W.10

BIRMINGHAM Rectory Park Road, Sheldon, 26

CANADA David C. Orrock & Co. (G. Brady & Co. Canada Ltd.)
1405 Bishop Street, Montreal 25, Que.
and also at 23 Scott Street, Toronto, 1

U.S.A. G. Brady & Co. Ltd., 11 West 42nd St. New York 18, N.Y.

NORWAY An Thorbjørnsen, Kongensgate, 14, Oslo
And also at Cape Town



we shutter the world

MANUFACTURERS OF BRADY HAND AND POWER OPERATED LIFTS



Bob Wilson holds a full house

A quick, ready smile, merry eyes, a pleasant wit—yes, Bob Wilson*, our London Area Manager, is a born raconteur and good value at a party. But don't underestimate his poker! Nor his organizing ability. With so many of the nation's architects concentrated in his area, he has to be on his toes and keep his large efficient team of draughtsmen, estimators and window fixers on their toes. Sometimes, perhaps, he feels a nostalgia for the old days. There is so little time for the flying ("it is a bit expensive, anyway!"), the motor racing, the rough shooting and the landscape painting he used to enjoy so much.

* MR. J. R. WILSON WILLIAMS & WILLIAMS LTD.
142 SLOANE STREET LONDON S.W.1 (SLOANE 0323)

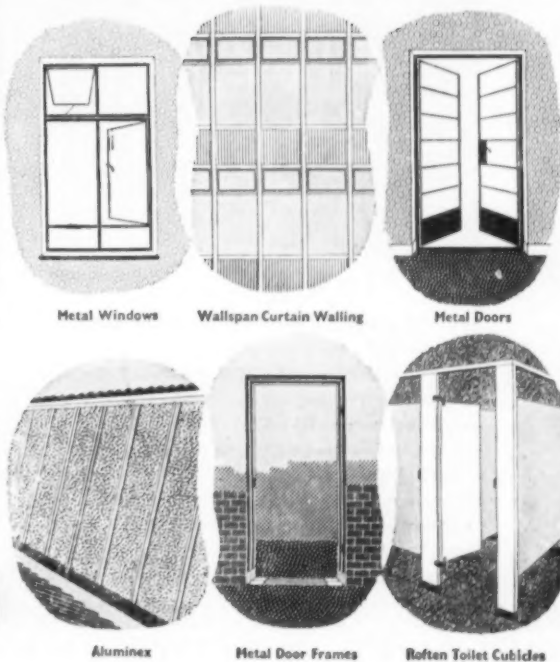
Other offices at: Belfast (23762). Birmingham (Shirley 3064). Bristol (38907). Bromley (Ravensbourne 6274). Cardiff (27092). Crawley (2200). Glasgow (Douglas 0003). Hertford (3969). Leeds (21208). Liverpool (Central 0325). Maidstone (51750). Manchester (Blackfriars 9591). Newcastle-upon-Tyne (21353). Nottingham (52131). Reading (50291). Sheffield (51594). Southampton (26252).

METAL WINDOWS

WILLIAMS & WILLIAMS



Member of the Metal Window Association





**"ESTATE"
FOR THE
HOUSE**

ELLARD

SLIDING DOOR GEAR



**"RADIAL"
FOR THE
GARAGE**

**FOR
HOUSING
ESTATES**

**FOR THE
PRIVATE
RESIDENCE**

ELLARD Sliding Door Gear is ideally suited for use on large housing estates and for the distinctive private residence. ELLARD "Estate" Gear is silent—easy running—troublefree, and has elegant appearance. ELLARD "Radial" Gear, for garages and out-houses, provides smooth-running action, gives maximum space, and is easy to fix. Both these well-known types of ELLARD Door Gear are moderate in price and immediate delivery can be obtained from large ironmongers and builders' merchants throughout the country.



**"ESTATE"
FOR THE
HOUSE**



**"RADIAL"
FOR THE
GARAGE**

CLARKE ELLARD ENGINEERING COMPANY LTD
WORKS ROAD • LETCHWORTH • HERTFORDSHIRE

TELEPHONE 6134

WIMPEY



THE STOW NEIGHBOURHOOD CENTRE, HARLOW NEW TOWN.
(Executive Architect for D. C. : V. HAMNETT ESQ., B.Sc., A.R.I.B.A.)

THE WIMPEY ORGANISATION

has been commissioned to carry out work for the following Development Corporations:—

AYECLIFFE • BASILDON • BRACKNELL • CORBY
CRAWLEY • CWMBRAN • HARLOW • HATFIELD
HEMEL HEMPSTEAD • PETERLEE • STEVENAGE
GLENROTHES

REGIONAL OFFICES at:

BIRMINGHAM • CARDIFF
NEWCASTLE • NOTTINGHAM
EDINBURGH • MANCHESTER

HEAD OFFICE:

GEORGE WIMPEY & CO., LIMITED,
HAMMERSMITH GROVE,
LONDON, W.6.

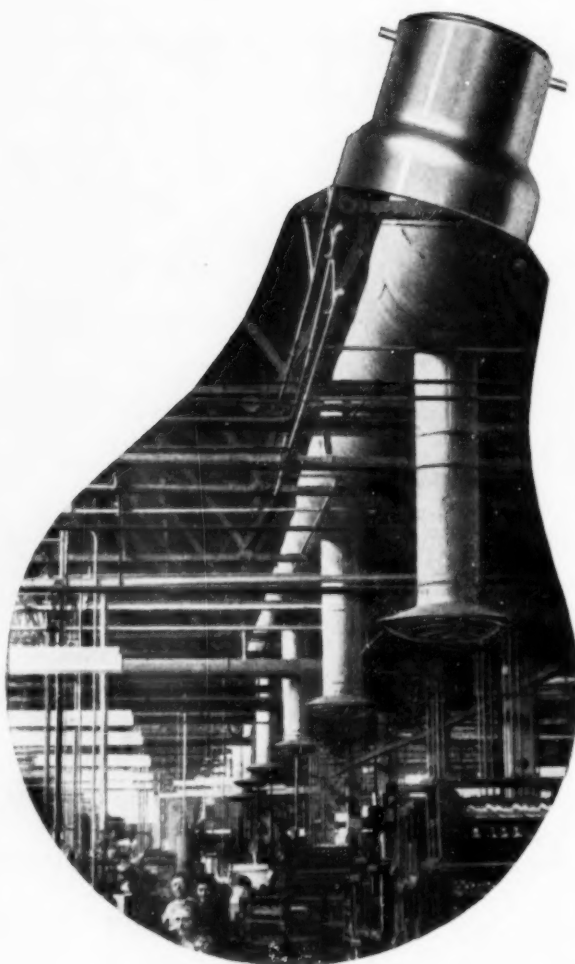
Nothing left to chance . . .

AIR PURIFICATION

In addition to normal air-conditioning, a vast Air Purification System makes doubly certain that the atmosphere throughout the Ediswan Lamp Factory is as clinically-clean and free of microscopic dust particles as human skill and ingenuity can contrive.

This immense plant consists of several Pumping Stations, each operated by 25 h.p. motors which deliver heat-treated, purified air via distributor ducts throughout the entire factory. Each Pumping Station circulates no less than 159,000 cubic feet (5½ tons) of air per minute! The temperature of the circulated air is precisely stabilised by thermostatic control.

This is another example of the strict control and technical care insisted upon at every stage in the manufacture of Royal "Ediswan" Lamps. Nothing is left to chance—careful testing and checking of every lamp ensures that each conforms to the highest standard of requirement.

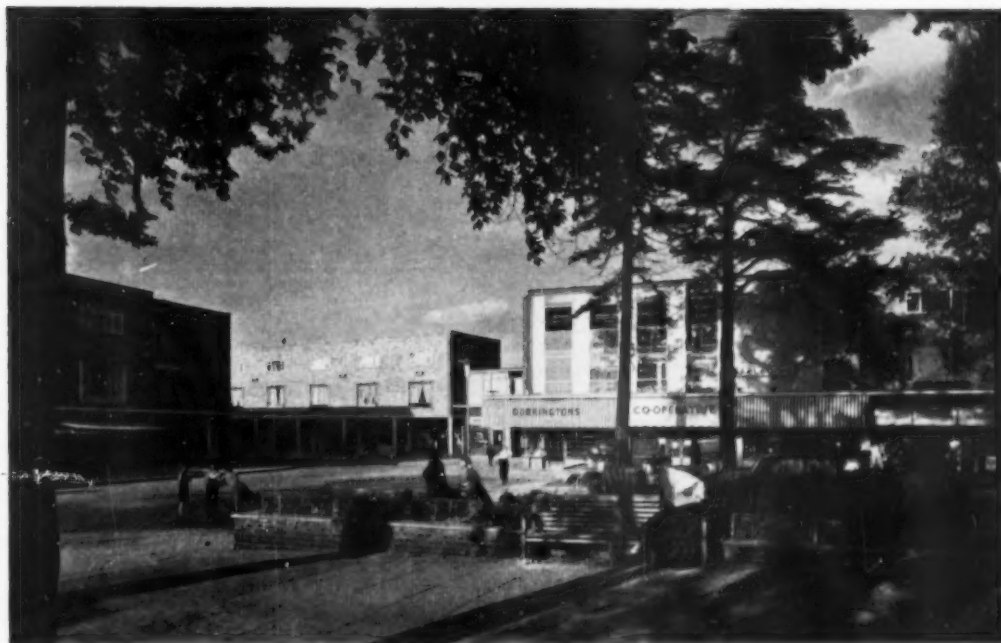


ROYAL "EDISWAN" LAMPS

The Edison Swan Electric Co. Ltd., 155 Charing Cross Road, London, W.C.2

Member of the A.E.I. Group of Companies

HARLOW NEW TOWN



THE STOW NEIGHBOURHOOD CENTRE

Architect : Frederick Gibbard, F.F.R.I.B.A.

Cementone

again!

Housing estates, shops, flats, the Methodist Church and numerous factories, all part of the Harlow New Town development and all decorated or protected with Cementone products.—This remarkable record stems from the amazing versatility of Cementone products, including as they do, colours for cement, hardeners, waterprooferers and a wide variety of decorative finishes. The name Cementone has long been associated with the most comprehensive and reliable range of specialised products available to the Building Industry; and full details will be found in the Cementone Handbook, sent free on request.



ST. ANDREWS METHODIST CHURCH GROUP

Architects : Paul Mauer and Partners,
F.F.R.I.B.A., M.T.P.I.

JOSEPH FREEMAN, SONS & CO. LTD.
CEMENTONE WORKS • WANDSWORTH • LONDON, S.W.18.

Telephone :
VANDyke 2432 (5 lines)

Telegrams :
CEMENTONE, WESPHONE, LONDON.

ARCHITECT AND ENGINEER:
C. Howard Crane & Partners.
GENERAL CONTRACTOR:
G. Percy Trentham Limited.



FOR CONCRETE REINFORCEMENT

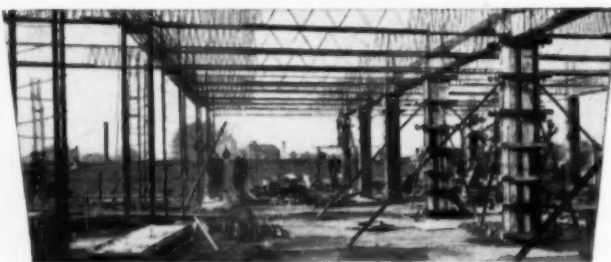
use **FRAMEWELD**

Trade mark

Regn: 589066

A REAL TIME AND MONEY SAVER

These pictures illustrate the extension to the existing factory of S. C. Johnson & Son Limited at West Drayton, Middlesex. The reinforced concrete frame was carried out in our patent FRAMEWELD system.



A copy of the FRAMEWELD handbook describing the system will be sent on request.

THE
600
GROUP
OF COMPANIES

T.C. JONES

AND COMPANY LIMITED
REINFORCEMENT ENGINEERS

Wood Lane, London, W.12. Telephone: SHEpherds Bush 2020
Bute Street, Cardiff Telephone: Cardiff 28786
Treorchy, Glamorgan Telephone: Pentre 2381

ARTHUR L. GIBSON & CO. LTD. TWICKENHAM, MIDDLESEX.

DE LA RUE INSULATIONS LTD.

Designed for industry . . .

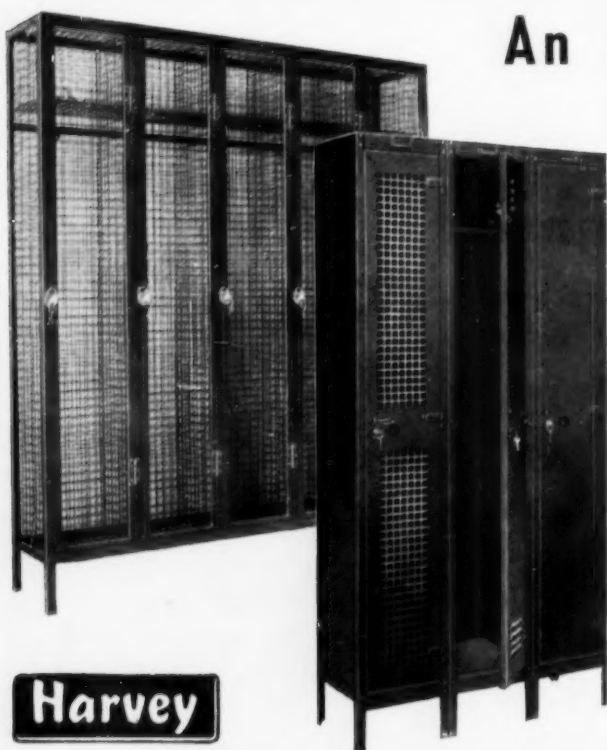
where efficiency is of the utmost importance, the certainty of many years of trouble free service and the clear uncomplicated design, make Kinnear steel rolling shutters the wisest specification from every point of view.



Kinnear's fifty years experience and the care that is taken over every installation, ensures that when it comes to saving ways in doorways, you should specify rolling steel shutters by

THE
KINNEAR ORGANISATION

TELEPHONES : POPESGROVE 2276 BIRMINGHAM HIGHBURY 2804 GLASGOW HALFWAY 2928 MANCHESTER CENTRAL 1008



An Important Amenity

Friction between employees and confusion at going-home time may be avoided by providing separate receptacles for clothes and personal belongings. Such provision is also important in the interest of hygiene. 'Harco' Clothes Lockers provide the answer. They are made in sheet metal or wirework, in nests of up to five in one unit, with short or full-length compartments as required.

Steel lockers are fitted with 6-lever locks which can differ up to 500; wirework lockers carry hasps and fasteners for padlocks. Height of both types is 72 ins.

'HARCO' CLOTHES LOCKERS IN WIREWORK OR SHEET METAL

Please ask for Lists A855 and A879.

G. A. HARVEY & CO. (LONDON) LTD.,
Woolwich Road, London, S.E.7. GREENWICH 3232 (22 lines)



NOT EVEN... A SCREWDRIVER!

JUST A FLICK OF THE THUMB AND THE FUSE IS READY FOR CHANGING

NO CHANCE OF INTERFERENCE WITH WIRING
COMPLIES WITH B.S.S. 1363
SPECIFY THE D.S.16 PLUG AND D.S.17 SOCKET
THE SOCKET WITH THE PORCELAIN BACK.

COMPETITIVE PRICES

**D. S. PLUGS LTD.
MANCHESTER · 5**



LONDON OFFICE & EXPORT DIVISION —
DORMAN HOUSE, 125, HIGH HOLBORN, LONDON, W.C.1.
MEMBER OF THE DORMAN SMITH GROUP OF COMPANIES.

You get 34.4% more light

With Venetian Blinds of *Luxaflex*



Bare window wastes light.... leaves far side dark



LUXAFLEX blind spreads light to far side of room

An exhaustive study by the Faber Birren Company* shows: A bare window gives extreme glare on one side of the room, insufficient light on the other. The Luxaflex Blind, by reflection, *spreads* the high-intensity sunlight at the window throughout the room - giving more illumination with less glare. The brightness ratio, which was 14 to 1 with the bare window, is now reduced to a comfortable 4 to 1.

Only LUXAFLEX blind-materials give these maintenance and durability advantages:



Easy cleaning

A damp cloth wipes away even the most stubborn stains from LUXAFLEX aluminium slats and vinyl plastic tapes. The tapes always keep their freshness - never stretch, shrink or discolour.



Snap-back aluminium slats

Now available in 14 beautiful pastel colours. Dura-sized to snap back ruler-straight, even when bent to a 90° angle. Baked-on finish can't rust, chip, crack or discolour.



Look for this mark

Be sure the blinds you specify carry the Luxaflex "visible-invisible" trademark on the slats. It's your guarantee of unrivalled quality.

Write for additional information and the name and address of a venetian blind manufacturer using Luxaflex slats and tapes to Hunter Douglas Holland's representative:

Reliance 3373, 3374, 3375, 3376, 1759, 2513

* This study was made at the request of Hunter Douglas Corporation, New York, U.S.A. Copies available on request.



Manufactured and Erected by

PENFOLD

Once again another important fencing project is entrusted to Penfold—this time at Anglo-Iranian's Kent Oil Refinery nearing completion on the Isle of Grain.

The 7ft. high Fencing, Reinforced Concrete Posts, Angle Iron Bent Heads and Fittings were all made at our Watford Factory and erected by teams of our specialist erectors.

IMPERIAL WORKS · BALMORAL ROAD · WATFORD · HERTS

FENCING AND ENGINEERING LTD.

Telephone: Watford 2241.

Telegrams: "Penfold, Watford."

COALHOUSES

Sectional, Precast, Concrete Units



A PLEASING JOB WITH NO UPKEEP CHARGES

Easily and quickly erected—Fourteen handy units plus sixteen standard bolts—the heaviest unit weighs less than 230 lbs.

Please 'phone or write for a descriptive leaflet.

Two standard sizes are available with internal dimensions as below:—

4' 2" x 4' 2" x 5' 6" high ... capacity 20—25 cwt.

4' 2" x 4' 2" x 4' 2" high ... " 15—20 cwt.

Supplied with all necessary fixing bolts and nuts—or supplied complete with door and door frame, tee hinges, thumb-latch and catch, hasp and staple, screws, fixing bolts and nuts.

(Door and door frame are primed one coat).

Prices and full particulars by return of post upon receipt of your enquiry.

TARMAC LIMITED
VINCULUM DEPT
ETTINGSHALL, WOLVERHAMPTON

Telephone: Bilston 41101/11 (11 lines)

LONDON OFFICE: 50, PARK STREET, W.1.

(GROsvenor 1422/5).



- Erected from standard size plates.
- Inside or outside flanges.
- Universal brackets and stay rods ensure complete rigidity.
- Standard jointing compound gives watertight joints.
- Sound design gives easy erection and years of trouble-free service.

◀ A Mather and Platt tank of 80,000 gallons capacity erected at an R.A.F. station.

Cast Iron

STORAGE

TANKS

379

MATHER & PLATT LTD Park Works Manchester 10 · Park House Gt. Smith St. London S.W.1

8 reasons why more and more Architects are insisting on

STRAMIT BUILDING SLABS

FOR ROOFS & CEILINGS PARTITIONS & WALL-LININGS

- ① Low-cost dry construction
- ② Pre-cut to size to save time on site and avoid cutting to waste
- ③ Light weight is combined with great strength and rigidity
- ④ Wall-framing is required at 4 ft. centres; roof-supports required at 4 ft. centres (pitched) and at 2 ft. centres (flat)
- ⑤ Surface is ready for immediate decoration
No screeding is required on roof decks
- ⑥ Good fire-resistance classification
- ⑦ High degree of sound absorption
- ⑧ Exceptionally high thermal insulation



2" THICK · 4 ft. WIDE · ANY LENGTH
(Stock Lengths are 8 ft., 9 ft., 10 ft. & 12 ft.)

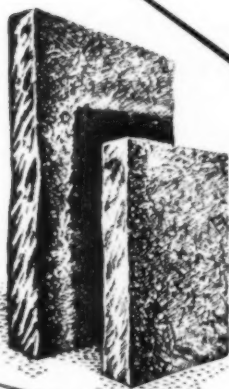
Available from stock
through leading merchants

Send NOW for YOUR copy of our fully
detailed TECHNICAL FOLDER (ABN1254.)
and Building Research Station Reports.

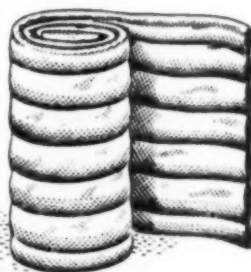
For efficient
thermal insulation
of water cisterns and tanks
specify
STRAMIT LAGGING UNITS
—details sent on request

STRAMIT BOARDS LTD · PACKET BOAT DOCK · COWLEY PEACHEY · UXBRIDGE · MIDDLESEX · WEST DRAYTON 3021

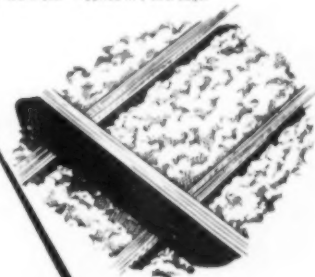
Blanket Slagbestos can be used for heating installations or laid on joists. Available in rolls 60" x 36".



Slagbestos in slab or mattress form for jobs requiring rigid or semi-rigid covering. In sizes from 18" x 12" to 24" x 36".



Loose Slagbestos for use in roofs (between joists) and cavity walls etc. Supplied in 1 cwt. bags.



McNeill's Slagbestos (MCNEILL'S PERFECTED MINERAL WOOL) INSULATION

McNeill's Slagbestos is safe to handle, easy to use and is available in convenient forms. It offers efficient insulation—and acts as a preventative to noise—at low cost.

F. MCNEILL & CO. LTD.

Head Office: 10, Lower Grosvenor Place, London, S.W.1

Telephone: VICTORIA 6022.

Works: London, Glasgow and Manchester.



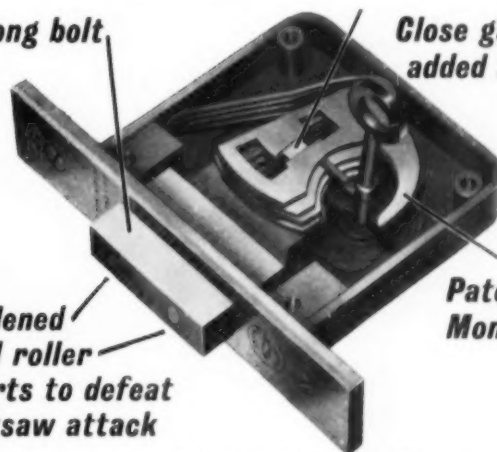
**ITEM:
One door
lock!**

Extra strong bolt

Close gating for added security

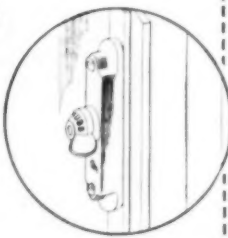
Hardened steel roller inserts to defeat hacksaw attack

Patent Monitor lever



ANOTHER LITTLE ITEM

A recent example of our policy which may be useful to you is a simple lock for securing metal-framed windows. Please ask our representative to call and give you details of these and other Chubb security devices.



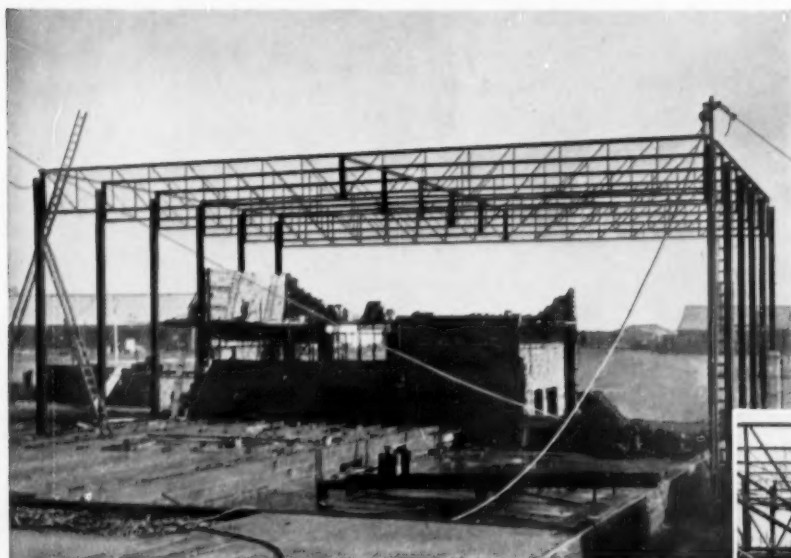
JUST AN ITEM. But it can make all the difference to your client—between security, for instance, and serious loss. Most people come to us in the end—it may be too late—for a lock they can rely on. Because Chubb locks are the outcome of a policy of continuous research to ensure the utmost security. So if you are tempted to make small economies by using weak, anonymous locks on back and front doors, please think again, and think of Chubb.

specify CHUBB locks



CHUBB & SON'S LOCK AND SAFE CO. LTD. 40-42 OXFORD ST. LONDON W.1 • TELEPHONE MUSEUM 5822
BRANCHES AT: BIRMINGHAM • BRISTOL • EDINBURGH • GLASGOW • LIVERPOOL • MANCHESTER • NEWCASTLE • AND DUBLIN-RIKE

HOTCHKISS LATTICE CONSTRUCTION



52 ft. lattice girders at a Portsmouth factory. Architects: Thomas Jolly & Grant. Contractors: John Hunt Ltd.

HOTCHKISS ENGINEERS LTD.

EASTBOURNE AND SHOREHAM SUSSEX

ESTABLISHED 1885

HEAD OFFICE: ASHFORD ROAD, EASTBOURNE

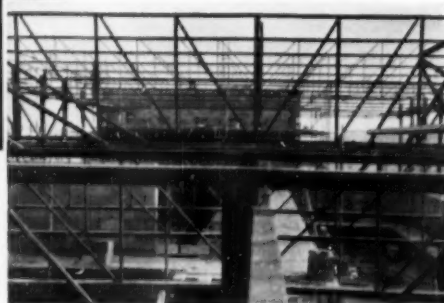
TEL. 2424 (4 LINES)

Hotchkiss Lattice Construction is being used for new schools, churches, factories, halls and many other buildings to the requirements of County Councils, Borough Councils and many leading architects.

The system is entirely flexible in application and suitable for all types of covering materials.

Your specific enquiries are invited. Our design services are free and it is most advantageous to call us in at an early stage.

Catalogue No. LG9 is available upon request.



TEMKON AIR CONDITIONING

for Banks · Hotels · Restaurants · Offices
Hospitals · Department Stores
Board Rooms · Clubs etc.

THE BEST EQUIPMENT FOR ALL APPLICATIONS IS SUPPLIED BY TEMPERATURE LTD

Major contractors to State and Government Departments
and the Petroleum Industry throughout the world.

TEMPERATURE LTD., BURLINGTON ROAD, FULHAM, LONDON, S.W.6

PHONES: RENown 5813 pbx

CABLES: TEMTUR, LONDON

Our Consulting service is available without obligation

"The Architect and Building News" incorporates the "Architect," founded in 1869, and the "Building News," founded in 1854. The annual subscription, inland and overseas, is £2 15s. 0d. post paid: U.S.A. and Canada \$9.00

Published by ILIFFE & SONS LTD., DORSET HOUSE, STAMFORD STREET, LONDON, S.E.1
Telephone: WATERLOO 3333 (60 lines). Telegrams: "ARCHITONIA, SEDIST, LONDON."

Branch offices: Coventry: 8-10 Corporation Street; Birmingham: King Edward House, New Street;
Manchester: 260 Deansgate. Tel. Blackfriars 4412 (3 lines), Deansgate 3595 (2 lines); Glasgow: 268 Renfield Street.

THE ROYAL GOLD MEDAL FOR ARCHITECTURE, 1955

Her Majesty the Queen on the recommendation of the Royal Institute of British Architects has awarded the Royal Gold Medal for Architecture for 1955 to Mr. John Murray Easton, F.R.I.B.A.

* * *

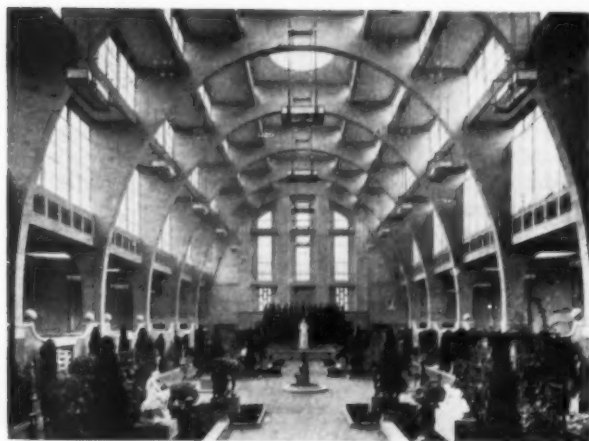
Murray Easton was born in Aberdeen in 1889. He got his architectural training partly by pupillage and partly at Schools in Aberdeen and London: afterwards by working for (among others) a French Architect in London and a London Architect in France.

In the first World War he was estranged from his drawing board for only one year for he was wounded at Ypres in October 1914 while serving with the London Scottish.

In 1919 he entered into partnership with Howard Robertson (now Sir Howard Robertson and himself a Royal Gold Medallist) and in 1929 their practice was amalgamated with that of Stanley Hall, an association that continued until the latter's death in 1940 during his term as President of the R.I.B.A.

In the early twenties Murray Easton acted as architectural Editor of the "Building News" until its union with the "Architect" and at this time and later wrote many articles including a description of Clare College, Cambridge for the volumes which were published to commemorate its sescentenary.

In 1929 he was awarded the Godwin and Wimperis



ROYAL HORTICULTURAL SOCIETY'S NEW HALL

Bursary of the R.I.B.A. and as a result of travel and research, produced a report on "Modern Health Centres in Europe."

He was President of the Architectural Association in 1939 and a Vice-President of the Royal Institute from 1945 to 1947 and, with two breaks, has been on the Council since 1939.

In 1928 Easton & Robertson won the London Architecture Bronze Medal for the new hall of the Royal Horticultural Society in Westminster and again in 1936 the firm, (now Stanley Hall & Easton and Robertson) received a similar award in respect of the Nurses' Home of The Hospital for Sick Children, which was Stanley Hall's especial care.

In the following year, they were awarded the R.I.B.A. Architecture Bronze Medal for Essex, Cambridge and Hertfordshire for the new Buildings for Gonville and Caius College, Cambridge. Murray Easton's connection with Cambridge goes back to 1930 and continues to the present day. His largest work there—the New Chemistry Laboratories—is still in course of construction and, with

STUDENTS' HOSTEL, ST. BARTHOLOMEW'S HOSPITAL
MEDICAL COLLEGE



one of his partners he is now planning a new Addenbrooke's Hospital.

Recently the Worshipful Company of Tylers and Bricklayers presented him with their Annual Gold Medal which is awarded for the best brick building erected in London within the last three years. This was in respect of the new Students' Hostel of St. Bartholomew's Medical College.

As well as Addenbrooke's Hospital and with the same partner he is planning a new hospital for Kowloon (Hong Kong) and a virtually new University of Malaya. With another partner he is designing a large office block in the City and one in the country.

Among the works of the firm, the following are those with whose design Murray Easton was particularly concerned:—

Public, Royal Horticultural Society's New Hall, Westminster (awarded London Architecture Bronze Medal); Metropolitan Water Board Laboratories, London; London Passenger Transport Board Station, Loughton. Commercial. 52, Cornhill, E.C.; 6, Lothbury E.C., Royal Bank of Canada; Oxford University Press Warehouse, Neasden; Factory and Offices at Morden; Pitt Press, Cambridge (remodelling); Reconstructed Showrooms for Stunzi Silks, London. Recreational. Swimming Pool, etc., at Bournville for Messrs. Cadbury Bros. Ltd.; Sadlers Wells Theatre, alterations and additions; St. John's College, Cambridge, Squash Courts, etc.; Anglo-American Allies Club, Piccadilly; Educational. Cambridge University: Zoological Laboratories; School of Geography; Old Library, remodelling as headquarters for the University of Cambridge; School of Anatomy; School of Psychology; Engineering Laboratories; Chemistry Laboratories; Gonville and Caius College (Fellows' and Undergraduates' Sets (awarded Bronze Medal)); various works for Peterhouse, Pembroke and Clare Colleges; The Queen's University of Belfast Institute of Clinical Science; St. Bartholomew's Hospital Medical College, new hostel for students (awarded Gold Medal of the Worshipful Company of Tylers and Bricklayers); and New Laboratories. Marine Biological Association Laboratories, Plymouth; New Hall, Convent School, Essex, restoration of 16th Century building. Hospitals. York Clinic, Guy's Hospital (in collaboration with W. J. Walford); New Children's Hospital, Dublin (in conjunction with Robinson, Keefe & Devane); New Limerick Regional Hospital (in conjunction with Patrick Sheahan); Royal Victoria Hospital, Belfast, new Nurses' Home. Domestic Work. Luckington Court, Wiltshire, additions, etc.; Watford Court, Northamptonshire, remodelling; Prestatyn—Golf Hotel, Swimming Pool, Pavilion, and Bathing Station; Bodnant, North Wales, remodelling and garden architecture; Mottisfont Abbey, Hampshire, remodelling; Houses in Cambridge, and North Wales, etc.

EVENTS

AND COMMENTS

1955

Amid all the fuss and flurry of preparing for Christmas I find I must write my stint for the New Year, and having put the date at the top I suddenly wonder how George Orwell's "1984" will read on Jan. 1, 1984, and that makes one wonder how I shall be feeling on the day that you read this. New Year resolutions become more difficult to make and easier to break each year, and they are, anyway, a personal affair.

What can we look forward to in the New Year? Perhaps one day London traffic will stop moving altogether, then all the head policemen and planners and writers to the evening papers will shout with a loud voice: "We told you so," which will do precisely nothing towards ungluing the jam. Someone is almost certain to fly from somewhere to some place faster than ever before; this will be heralded as Progress. It is not unlikely that the boffins will produce a nuclear explosive which will make the hydrogen bomb seem like the bang of a bun bag. This will give us more confidence in our daily work and the rightness of everything. 1955 may be the year in which edible plastics are introduced and this may lead to interchangeability between foodstuffs and building materials—a field already partially explored by Humperdinck.

Now that physical infirmity is being exploited in advertising (I saw seven men in check shirts and black eyepatches at a recent fancy dress dance) we may at any minute expect to see one-legged lovelies in *Vogue*.

In architecture we can look forward to the starting of work on Coventry Cathedral and the completion of one or two of the better buildings in the City of London. Some of the L.C.C.'s high flats will be able to be seen in their finished setting, too. Work will begin on the construction of the new Cromwell Road extension—this enterprise has, I am told, set the Hammersmith housing list back a whole year and has deprived the area of almost all its chars and daily helps.

In building materials we can expect to hear more about bricks and blocks made with P.F.A. (pulverized fuel ash); new uses of asbestos cement sheeting; developments in corrugated plastics sheeting; and, if rumour is correct, the introduction of a stove-enamelled glass.

In architectural education we shall hope to see the report of the MacMorran Committee; in building education much is known to be happening behind the scenes, and we shall hear more about apprentices and, maybe, something about training for building management.

All this will be going on against a background of feverish activity in the industry. Let us hope that some, at least, of the buildings produced by this wave of prosperity will be good architecture.

ABNER

NEWS OF THE WEEK

London Builders' Conference

Mr. H. F. L. Turner (M.P. for Oxford) asked the Minister of Works on December 21 whether he would now make a statement about the Report of the Monopolies Commission on the Supply of Buildings in the Greater London Area. The Minister of Works, Mr. Nigel Birch, replied: Yes, Sir. As I stated in reply to the hon. Member for Accrington on October 19 last, the L.B.C. has abandoned the practices criticized by the Commission. I welcome and accept their assurances.

Similar practices have been followed to some extent outside London and the Government take the view that these also should be given up.

In future firms will not be included on any list of approved Government contractors for new buildings if in tendering for such work they follow the practices criticized by the Commission. The firms already on the lists are being asked to confirm that they wish to remain there and accept this condition. This will make it unnecessary to continue the use of the form of declaration which was directed against these practices.

The attention of the associations of local authorities is being drawn to the Report and to the action taken.

Further Building Expansion in 1955

Speaking at a luncheon of the National Council of Building Material Producers at the Connaught Rooms on December 16, Mr. Duncan Sandys, Minister of Housing and Local Government, said:—

"We hope and expect that the number of houses completed in Great Britain this year will beat last year's figure. We look like reaching over 340,000. This total includes some 220,000 subsidized houses for letting, which is more than in any previous year. There has also been a welcome increase in the number of houses built for people who want to own their own homes. At the same time, more work is being done on the improvement and conversion of the older houses. And the slum clearance campaign, which was making such good headway until it was interrupted by the war, is now beginning to get under way again.

"This policy of freedom and expansion has been made possible only because of the achievements of the producers of building materials.

"The brickmakers and cement manufacturers have made a notable contribution. During the war their output was drastically reduced, and their manpower was dispersed. But they have now built up their production again. From an output of little over 1,000 million bricks in 1945, they are now turning out over 7,000 million a year. The production of cement has expanded from about 4 million tons a

year at the end of the war to nearly 12 million to-day.

"The other producers—including the makers of tiles, fittings, earthenware and rainwater goods and the like—have all played a vital part in the success of the housing programme.

"You may well be asking yourselves what about the future? There is every indication that the demand for building work of most kinds will continue to expand next year.

M.o.W. Awards for Private Enterprise Housing

To encourage good design in private enterprise housing, awards of Medals and Diplomas are to be made by the Minister of Housing and Local Government on the recommendation of Regional Committees for the best-designed privately owned house or houses built for letting or for sale since the end of the war by firms of builders or property owners.

In another separate class of entries, awards will be made for the best schemes of improvement or conversion carried out by private owners or public authorities in each Region. Schemes are eligible whether undertaken with or without the aid of a grant under the Housing Act of 1949.

Both these categories in the annual awards made by the Ministry are innovations. Since 1950 the award of housing medals and diplomas has been confined to local authority housing projects and schemes by housing associations.

The 1955 scheme of awards is being organized by the Ministry in collaboration with the Royal Institute of British Architects, the Royal Institution of Chartered Surveyors, the Town Planning Institute, local authorities' associations, and the National House Builders' Registration Council.

Not more than two awards in each class of entry will be recommended by each Regional Awards Committee. Medals and diplomas will be presented to the architects or designers and diplomas to the builders of winning schemes.

The awards will be made by the Minister on the recommendations of committees set up in the eleven housing regions of England and Wales. The membership of each committee includes representatives of the technical professions and also of the local authority associations and the Federation of Registered House Builders.

In both categories post-war schemes completed by the end of this year will be eligible. Entries must be sent to the appropriate regional offices of the Ministry of Housing and Local Government by February 26. Entry forms for private schemes are obtainable from these regional offices, and entries may be submitted either by the architect or by the builder, provided the consent of the owner has first been obtained.

A circular announcing conditions of the awards says that Awards Committees, in considering entries for the private house competition, "will no doubt have regard to the economical and appropriate use of materials, and to good internal planning as well as external design. When considering a group or scheme comprising several houses particular regard will be paid to layout. The siting of individual houses in relation to landscape and to any neighbouring properties is also important. In all cases regard will be paid to points incidental to good design, such as site requirements in regard to building lines and boundaries, the treatment of fences, walls, gates and use of planting. The small, economical house or scheme will have as much opportunity of winning an award as the larger, more expensive one."

A scheme entered in the improvement and conversion competition, says the circular, should be one that has attracted a grant under the Housing Act, 1949, or be of a character and extent similar to such schemes. A scheme of a more expensive or luxury type will not be eligible.

Completed entry forms should be sent to the Housing Medals Awards Committee at the appropriate Regional Office. The following is the list of these offices:—

1. Government Buildings, Kenton Bar, Newcastle-on-Tyne, 3.
2. Government Buildings, Lawnswood, Leeds, 6.
3. Government Buildings, Chalfont Drive, Western Boulevard, Nottingham.
4. Brooklands Avenue, Cambridge.
5. Ministry of Housing and Local Government (London Region), Whitehall, S.W.1.
6. Whiteknights Park, Reading.
7. Flowers Hill, Brislington, Bristol, 4.
8. Cathays Park, Cardiff.
9. Severn House (Second Floor), Suffolk Street, Birmingham, 1.
10. Government Buildings, Warwick Road South, Old Trafford, Manchester, 16.
11. Ministry of Housing and Local Government (South Eastern Region), Whitehall, S.W.1.

COMING EVENTS

The Royal Institute of Chartered Surveyors

January 3, at 5.30 p.m. Ordinary General Meeting. T. J. Nardecchia, B.Sc., F.R.I.C.S., will give an Address on "Valuations for the Purposes of the Town and Country Planning Act, 1954." At 12, Great George Street, S.W.1.

Royal Institute of British Architects

January 4, at 6 p.m. Announcement of Award of Prizes and Studentships. "Chandigarh: The Capital of the Punjab," talk by Maxwell Fry, C.B.E., F.R.I.B.A., at 66, Portland Place, W.1.

A.R.C.U.K. Maintenance Scholarships in Architecture

The Architects' Registration Council of the United Kingdom offer for award in June, 1955, certain Maintenance Scholarships in Architecture. The Scholarships will consist of a grant for the payment of one-third of the School fees, and, when necessary, a maintenance allowance. The Scholarships will be renewable from year to year until the student has finished his or her School training. They will be available for Students of British nationality who could not otherwise afford such training to enable them to attend Architectural Schools approved by the Council. Students must, before submitting applications for A.R.C.U.K. Maintenance Scholarships, ascertain from the Local Education Authority for the district in which they reside, whether that authority has any form of financial assistance available in cases such as theirs. Applications will not be considered if no steps have been taken by students to secure such other assistance as may be available. The Scholarships will be available both for students who have already begun their training and for students wishing to begin their training. Scholarships will not be granted to Students who will be less than 17 years of age on October 1 of the year in which the examination is taken. Particulars and forms of application may be obtained from: The Secretary to the Board of Architectural Education, Architects' Registration Council of the United Kingdom, 68, Portland Place, London, W.1. Copies of previous years' examination papers may be obtained on payment of 6d.

The closing date for the receipt of applications, duly completed, is January 31, 1955.

Historic Churches Grants

The Trustees of the Historic Churches Preservation Trust have announced the following list of grants to parish churches. Thirty-eight parishes and one Nonconformist chapel will benefit by this, the last list of grants to be announced in 1954. The grants total in all £14,825. The Trust is also making two loans, of £1,500 and £1,000 respectively, to Lapford and East Portlemouth, both in the diocese of Exeter.

Province of Canterbury.—*Canterbury* (£1,150): Brookland £150, Canterbury, St. Peter, £500; Ramsgate, St. St. Lawrence, £500. *Chelmsford* (£1,000): Fyfield, £500; Pattiswick, £500; *Derby* (£400): Ault Hucknall, £200; Steetley, £200; *Exeter* (£2,875): Ashwater, £400; Churchstow, £500; Colebrooke, £250; Coleridge, £300; Cookbury, £150; Ilsington, £300; North Bovey, £400; Pilton, £400; Teigngrace, £75; Widdicombe, £100.

Gloucester (£1,500): Aldsworth, £100; Mitcheldean, £300; Quinton, £100; Upleadon, £500; Weston-on-Avon, £225; Whittington, £275. *St. Albans* (£1,000): Gilston, £250; Kensworth, £250; Milton Ernest, £250;

Thurleigh, £250. *Province of York.*—*Ripon* (£800): Barwick-in-Elmet, £500; Burneston, £300. *Sheffield* (£4,000): Fishlake, £4,000. *Southwell* (£1,000): Carlton-in-Lindrick, £200; Ratcliffe-on-Soar, £500; Thurgarton, £200; Trowell, £100. *Wakefield* (£1,000): Ferry Fryston, £200; Kirkheaton, £200; South Crosland, £400; Woolley, £200. *Nonconformist.*—Mill Hill Chapel, Leeds, £100.

London Builders Foreman's Association

The Annual General Meeting of The London Builders Foreman's Association, was held at The Memorial Hall, Farringdon St., E.C., on Wednesday, December 8, 1954.

The following were elected as officers and committee for 1955: *President*, Mr. J. Mellor; *Vice-President*, Mr. C. F. Hall; *Treasurer*, Mr. E. J. Webb; *Secretary*, Mr. A. Wright; *Trustees*, Mr. A. T. Birt and Mr. C. E. Pocock; *Auditors*, Mr. W. Trickey and Mr. H. Hamman.

The Management Committee.

Messrs. G. L. Adams, F. J. Beach-Barnard, J. Bexley, D. L. Collins, F. A. Dryland, R. T. Hood, S. W. Franklin, N. Lawson, R. W. Mercer, W. S. Oliver, H. T. Piesse, C. W. Reed, A. G. Rushworth, S. G. Stone, W. R. Taylor, G. T. B. Winstanley, A. Woolford.

Editor, Mr. W. R. Taylor. *Assistant Editor*, Mr. R. T. Hood.

National Federation of Plastering Contractors

A meeting of the Council of the National Federation of Plastering Contractors was held in the Council Chamber at 82, New Cavendish Street, on December 7, 1954, with Mr. R. A. Atkin, President, in the Chair. This was the first occasion on which the Council has met at the Headquarters of the N.F.B.T.E. since the Affiliation Agreement was made five years ago. A lengthy agenda led to a full discussion on a number of current questions.

On December 8 the Federation held its Annual General Meeting at the Piccadilly Hotel. Among the matters discussed were the full-scale trials of new materials and processes being conducted by the N.F.B.T.E. in co-operation with the Building Research Station. In particular, an appeal was made for more members of the N.F.P.C. to carry out the trials on aerated mortars. The meeting expressed its appreciation of the Building Research Station's Digest No. 69, published in August, 1954, on "Avoiding Defects in Internal Plastering," which was thought to contain much useful information. Another question of considerable topical interest which was raised was the insurance position in relation to damage caused to works in progress by tempest or flood. Mr. L. K. Waters, of Messrs. Matthews Wrightson & Co., Ltd., the official consultants on insurance to the Federation, gave a helpful explanation.

APPOINTMENT

Mr. John Armour, A.M.I.C.E., depute planning officer, Glasgow Corporation, has been appointed city engineer and town planning officer by Dundee Corporation from February 1.

CORRESPONDENCE

Swedish Lightweight Concrete Units

To the Editor of A. & B. N.

Sir,—We have read with great interest your informative article on "Swedish Lightweight Concrete Building Units" in your issue of December 9, 1954.

While we agree wholeheartedly with the theme of your article, that lightweight concrete is one of the really great improvements in building materials, and one that would reap greater interest in this country, we must ask leave to dispute the statement that chemically aerated concretes have lower density and higher strength than concretes aerated with foam. We are sure you will find that we are not alone in asserting that this is not so.

It so happens that chemical aeration processes are almost always associated with autoclave curing, and it is this heat treatment of the freshly set mix which results in a great improvement in the strength-density relationship and certain other advantages. Autoclave curing is just as applicable to foamed concretes as to chemically expanded mixes and yields comparable results with both materials.

The great difference between the two methods of expansion is that foamed concretes are easily prepared by ordinary building labour and are perfectly suitable for casting *in situ*, which chemically aerated concretes are not. *In situ* casting widens the scope of aerated concrete enormously, and it is presumably for this reason that the foamed variety is best known in the ordinary air-cured form.

The production of autoclaved pre-cast products is one of the most important outlets for aerated concrete, and the one in which this country lags most sadly behind developments elsewhere. But we submit that this should not be allowed to blind us to the great value of the less spectacular, but equally useful, air-cured product.

I am, etc., V. H. CHATLEY,

Sales Manager,
Cellular Products Division,
The Pyrene Company, Ltd.

ADDENDA

Consultants and others who worked on the Technical High School, Great Yarmouth, published in our issue of December 16 were:—

Quantity Surveyors, Philip Pank & Partners; Heating and Electrical Consultants, Edward A. Pearce & Partners; Principal Architectural Assistants, H. R. Lister, A.R.I.B.A., until January, 1954, and P. H. Liversidge, M.A., A.R.I.B.A., until completion.

On the Halffield Estate, Paddington, published in our issue of November 18, Lightweight Concrete using the "Phomene" process of the Pyrene Co., Ltd., was used as roof insulation in addition to the process by Celcon, Ltd.



THE STOW NEIGHBOURHOOD CENTRE, HARLOW NEW TOWN

FREDERICK GIBBERD, C.B.E.,
Architect-Planner.

VICTOR HAMNETT,
Executive Architect

THIS Neighbourhood Centre serves the major north-eastern neighbourhood of the Town containing Mark Hall North, Mark Hall South and Netteswell, which contains a population of approximately 17,500 persons, almost all of whom are accommodated in dwellings recently erected by the Corporation.

The Centre is situated near the inter-section of the two major roads serving this neighbourhood and at the junction of the cluster of the three neighbourhoods which together form the major neighbourhood; Sub-Centres are located throughout the cluster to provide "round the corner" shopping.

The principle aimed at in planning the Centre was to concentrate as many different activities as possible in the one group, which at present includes 40 shops and a post

office, with 39 maisonettes and 9 flats over, 10 offices, dance hall, café, branch library, public house, community centre, service industry and sports facilities for cricket, football and tennis.

Construction will shortly commence on a health centre, petrol filling station and space is reserved for a Methodist Church, the first stage of which has been constructed and is illustrated in this issue.

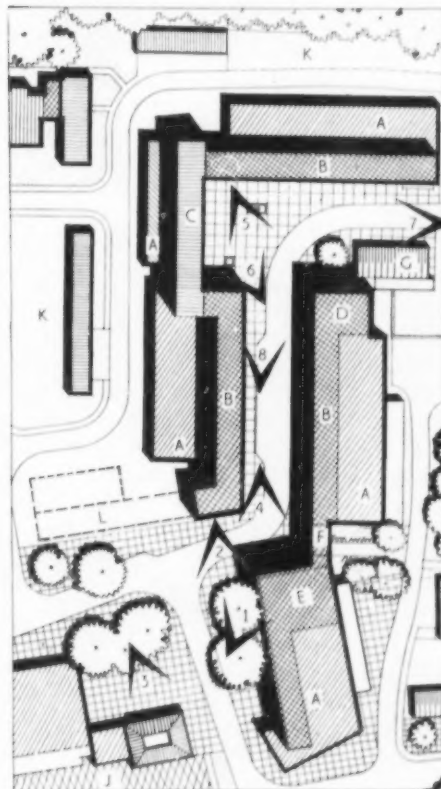
Maisonettes above the shops are 2-bedroom types with large paved roof terraces, access to which is obtained by public staircase from the rear of the groups of buildings. Flats are 1-bedroom and bed-sitting room type, the latter being arranged with balcony access over one group of maisonettes.

The shopping centre contains two squares which are connected by a narrow street forming a "Z" shape on plan, and which achieves a satisfactory sense of enclosure from both approach directions and within the centre itself.

Buildings on the connecting link are placed as close together as possible and shop fronts are covered either by a projecting canopy or with a portico. In this way a strong demarcation is achieved between the shop fronts

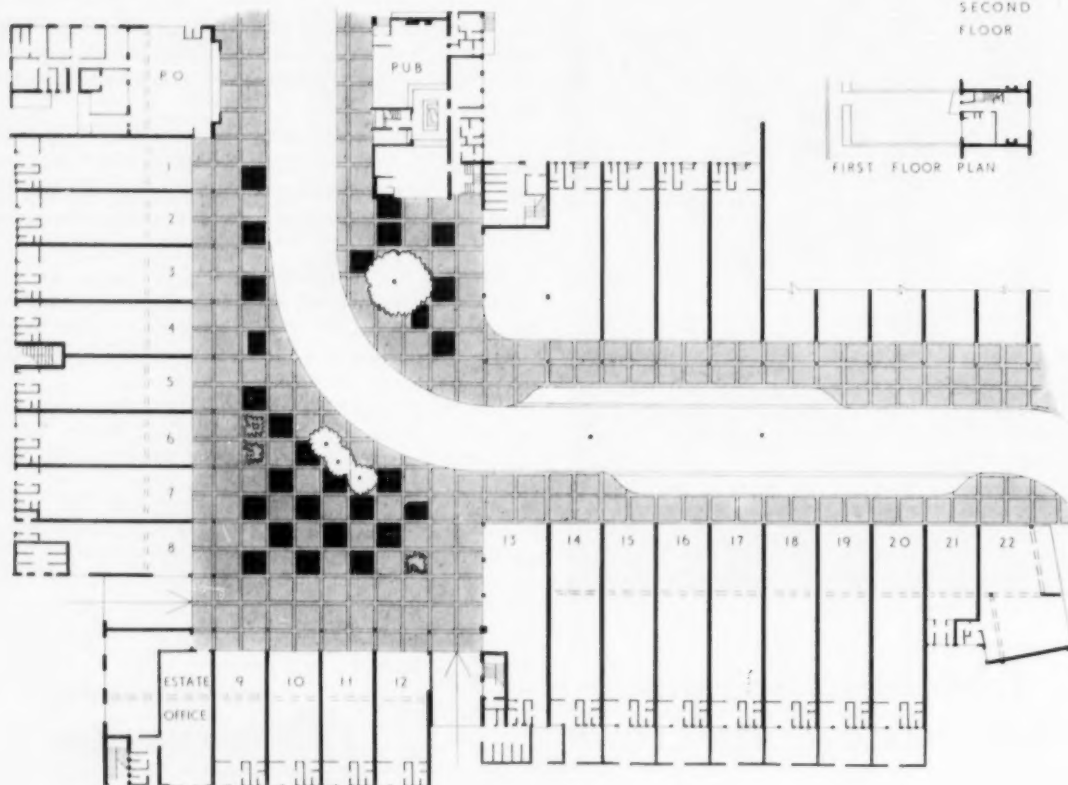
1. Showing on right the Harlequin Restaurant and dance hall above shops. Designed by H.D.C. Design Group. The numeral refers to the viewpoint shown on the block plan

KEY: A. Shops. B. Maisonettes over shops. C. Flats and maisonettes over shops. D. Offices over shops. E. Dance hall. F. Restaurant. G. Public house. H. Branch library. J. Community centre. K. Parking. L. Phase III: future construction: maisonettes over shops. Δ North upward.



Stow Neighbourhood Centre, Harlow New Town

Shops 14-20 in the layout have a clear setting area:—59ft by 17ft, just over 1,000 sq ft, plus a 204 sq ft yard at the back. Numbers 1 to 8 and the smaller shops opposite are 50ft long and average 850 sq ft in area with no private yard. The smallest shops, 9-12, are 36ft long, 612 sq ft in area, with no yard. The ancillary area at the back of the shops is generally 136 sq ft.



Plans of the shopping centre. Scale: 1 in = 56 ft

and building above and a continuous fascia line is established, below which the shopkeeper is given freedom of design within broad lines of approach.

The shopping centre was built in two stages in order to synchronize with the development of the neighbourhood, the first stage comprising the west and north portions and the second stage the eastern portion.

The Site

The site is fairly level and presented little difficulty in this respect and contained some fine existing trees which have been incorporated in the layout. It is closely linked with a housing area on the east with sports facilities to the south and housing beyond. As with the majority of the designated area, there were no existing services and these have all been brought in.

Construction and Finishes

Construction is generally of load-bearing brickwork and hollow tile reinforced concrete floors and roof. Dividing walls between shops are 13½ in brick work and party walls between maisonettes 11 in cavity brickwork. Floors between shops and maisonettes are in hollow tile reinforced concrete. Walls and roofs to maisonettes are the same with the addition of insulation board, screen and asphalt roofing. Intermediate floors in maisonettes are timber joists and T & G flooring. Roof terraces are surfaced with "Paropa." Facing brickwork is in Ibstock Purple-Red Facings to piers and flanks, built in a modified Monk Bond of two stretchers, one header, and the panels between piers are in Buffs in ordinary stretcher bond. The panels to the offices are in grey faience and the large panel on the front of the dance hall is in yellow frost-proof tiles pierced with

[Continued on page 804]



2

2. Moot House Community Centre on right. Shops with maisonnettes and dance hall over on left

3. Moot House, the centre of the Mark Hall & Netteswell Community Association, showing Chiron the Centaur and Boy, designed by Miss Spencer Watson in commemoration of the Coronation, 1953

4. Restaurant with link bridge over pedestrian way to housing areas. Entrance to restaurant and dance hall

3



4





5

Stow Neighbourhood

Centre, Harlow New Town

5. View towards dance hall and restaurant from paved square, north

6. Shops & maisonettes. Designed by H.D.C. Design Unit

7. "The Essex Skipper" the first public house to be built in the town is shown on the left

6

7



Continued from page 802

glass lenses with concrete porthole frames. Columns and nibs of dividing walls between shops are faced with pale blue frost-proof tiles. The floor finish to all maisonettes, offices and café is thermoplastic tiles where on concrete. The floor to the dance hall is oak strip on battens. Windows are of hardwood timber frames except to offices, dance hall and café, which have special steel sashes. Heating to maisonettes is by all-night-burning back-boiler fires, whilst the dance hall and café are heated by hot-water radiators from gas-fired boilers. Office heating is by electric tubular heaters.

The general street lighting is by fluorescent light fittings fixed to the face of the buildings with wiring carried out in chases internally.

In the squares, this form of lighting is supplemented by a fluorescent tube mushroom fitting specially designed by the Architect in co-operation with The General Electric Co., Ltd.

Trade delivery to shops is by a rear service road which also gives access to shop garages, ancillary buildings, service industry and car parks. Pedestrian access to car parks and rear of the shops is also obtained from the squares by means of through-ways.

Section through shop and maisonette
Scale: 1 in = 8 ft

General Contractors:

Griggs & Sons Ltd., Phase I

Geo. Wimpey & Co., Ltd., Phase II

Bricks:

Finnis Ruault & Nicholls, Ltd.

Built-up Roofing:

D. Anderson & Sons, Ltd.

Stone Paint:

Joseph Freeman Sons & Co., Ltd.

Electrical Installation:

Eastern Electricity Board.

Gas:

Eastern Gas Board.

Glass Domes:

T. W. Ide.

Heating:

G. N. Haden & Co., Ltd.

Ironmongery:

W. N. Froy & Sons, Ltd.

Walker & Wood, Ltd.

Lettering and Direction Signs:

Signcrafts, Ltd.

Lights to Street:

The General Electric Co., Ltd.

Reinforced Concrete Work:

Caxton Floors, Ltd.

Terrace Roofs:

Frazzi, Ltd.

Thermoplastic Tiles:

Armstrong Cork Co., Ltd.

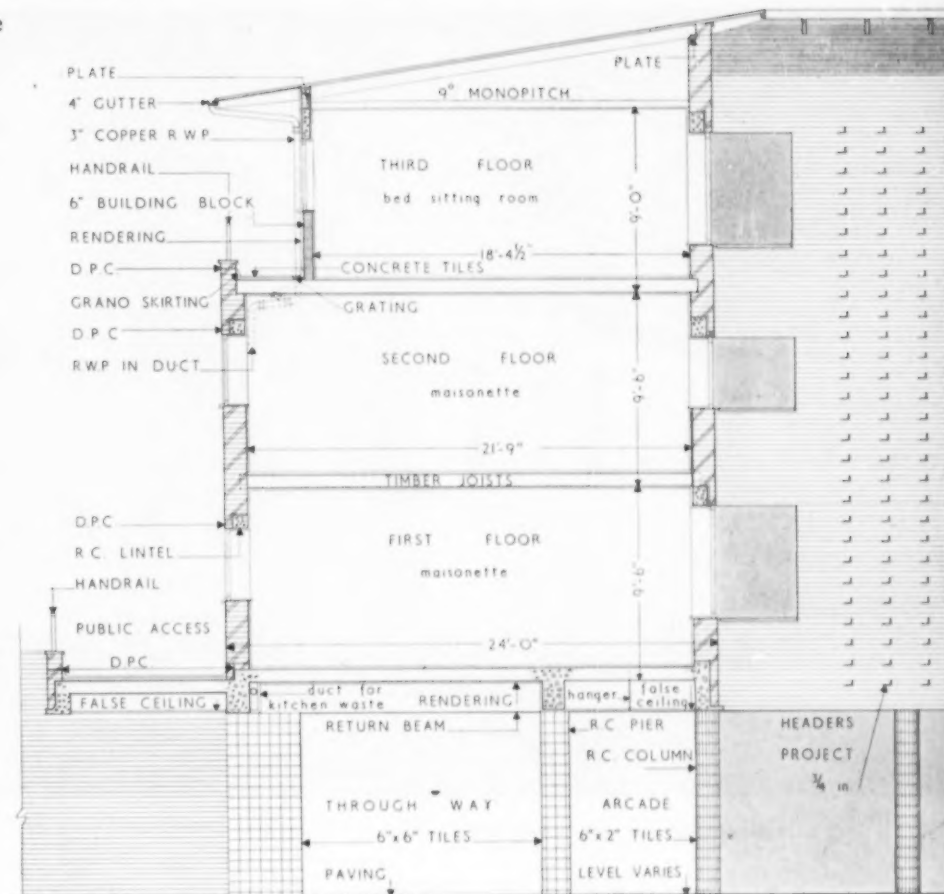
Marley Tile Co., Ltd.

Tiling:

Carter & Co., Ltd.

Windows—Steel:

Williams & Williams, Ltd.



8. The Stow shopping centre showing maisonettes and offices over shops; square at north end of centre



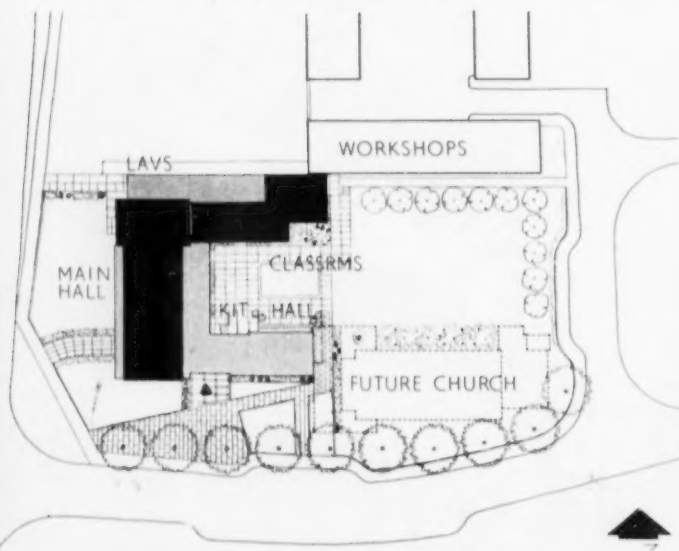


The larger hall and main entrance on right

ST. ANDREW'S METHODIST CHURCH GROUP,
The Stow, Harlow New Town

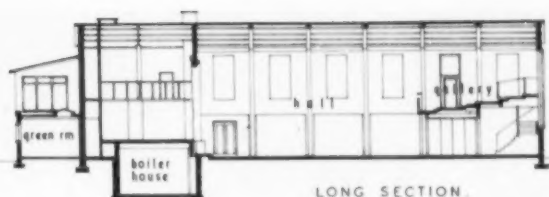
architects: PAUL MAUGER & PARTNERS

assistant in charge: G. Patrick Wilson, A.R.I.B.A.





CROSS SECTION.



LONG SECTION.



GROUND FLOOR



UPPER FLOOR.

0 10 20 30 40 50 feet

THE Site in the Stow—about 4.5 acre—was purchased from the Corporation and is adjacent to the Moot House and shopping centre, published in this issue.

The accommodation consists of Large Hall seating 210 on the ground floor and 90 in the Gallery (with cloakroom accommodation). This will serve as a Church until the Church itself is built. The platform is designed for use as a stage, with fly gallery and cyclorama, but for Church services is curtained off by full length curtains descending to the floor of the Hall. A removable dais in front of these curtains raises the area used by the Minister above the general floor level. The church furniture, consisting of a pulpit, communion rail and table, have been designed by the architects and are removable. The gallery has a low plate-glass front, linking it visually with the Hall, and an open hardwood screen to allow the curtained-off foyer underneath to be used as part of the Hall on occasions.

The Small Hall, seating 70, is for general social use and refreshments can be served from the adjacent kitchen.

Three classrooms for Sunday School classes of 50-60 children each, with cloakroom accommodation, form a separate wing.

The building so far completed is planned as an L, along the arms of which runs a wide Cloister looking out on to a garden court. The flat roof to part of the Cloister forms a terrace overlooking the Court, and is accessible both from the Court, by an outside staircase, and from the classrooms. The remainder of the site has been grassed over until the Church is built. Flower beds and borders are being maintained by members of the Church.

Construction

External walls are of brick and the facings are "Whitwick Golden Brown" and "Straw Ruff" Leicestershire bricks, and the inner skin of the cavity walls is of clinker blocks. The Large Hall is a single storeyed steel frame standing on reinforced concrete columns up to the level of the side aisle roofs. The raking gallery is of reinforced concrete. Roofs of the side aisles and cloister are of reinforced concrete and those of the Large Hall, Small Hall and classrooms have steel trusses and purlins with Stramit Boards covered with slate grey three-ply mineralized felt.

The buildings are centrally heated by radiators. Heat is supplied from an oil-fired plant in a boiler-



Hall and Gallery

Methodist Church Group, Harlow

Hall Stage from Gallery



house below the stage approached from outside. In addition to normal radiators the Main Hall has Rayrad panels under the high level windows.

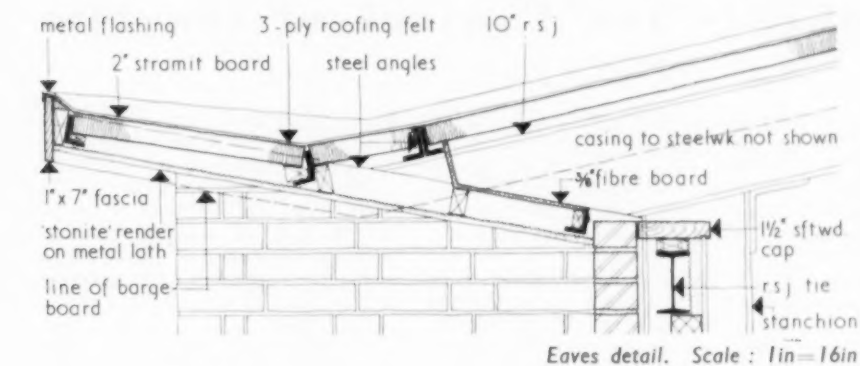
Floors to the Large and Small Halls are laid with Muhuhu (West African hardwood) blocks: elsewhere thermoplastic tiles have been used in varying combinations of colours and designs. The gallery is finished in grano with cork carpet insets with Ferodo nosings to the gangways and stairs.

The decorations have been carried out in colours selected from the Archrome range of Munsell colours. Mainly white and blue, with touches of deep red, have been used in the Large Hall, which also depends on the contrasting hardwoods—principally Iroko and Ash—used in the furnishings and finishes, and on the curtains to the Stage and under-gallery. The design of the proscenium curtain is "Village Church," designed by Hilda Durkin for Heals. The Classrooms are decorated in bright contrasting colours and have Heals' "Flotilla" curtains.

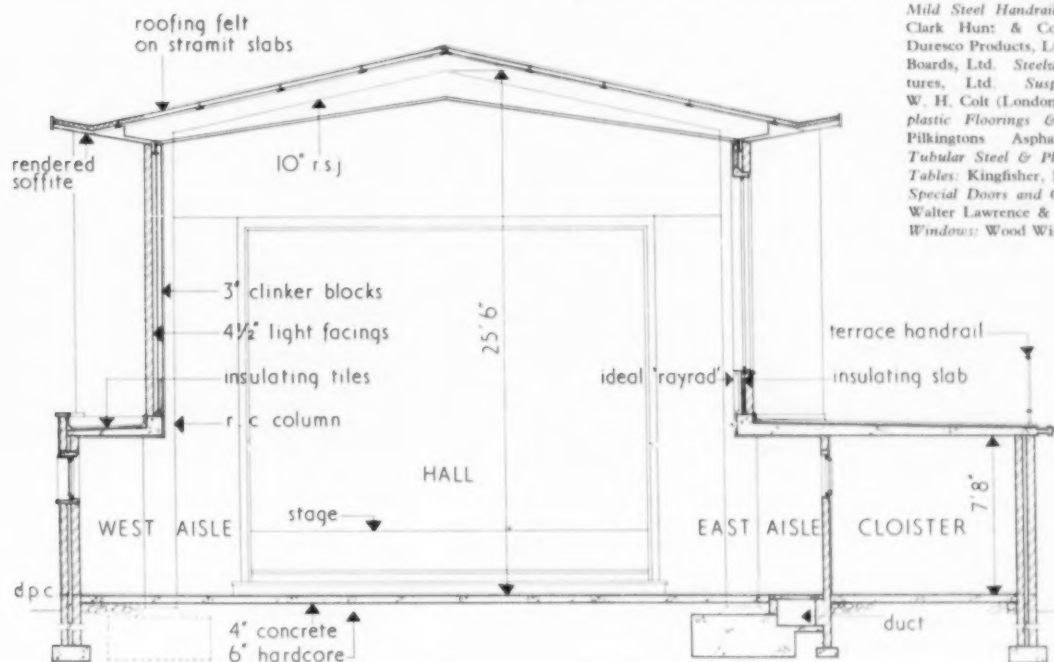
Heating Engineers : J. Roger Preston & Partners.

Quantity Surveyor : C. E. Ball & Partners

General Contractors : G. Davies & Sons (Broxbourne) Ltd.

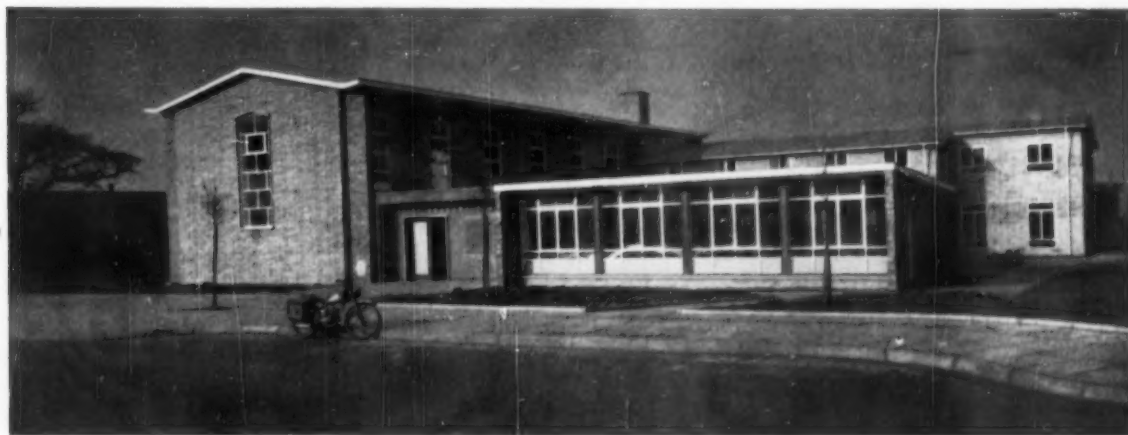


Bricks—Facing: The National Coal Board; E. H. Smith (Westhaven), Ltd. Clinker Blocks: Broad Acheson Co., Ltd. Coloured Renderings and Pavings: Joseph Freeman Sons & Co., Ltd. Curtains, Tracks, etc.: Catesby's Ltd. Electrical Installation: Eastern Electricity Board (Bishop's Stortford). Flush Doors and Kitchen Fittings: Jayanbee Joinery, Ltd. Gas Water Heaters & Installation: Eastern Gas Board (Tottenham Division). Hardwood Floors: Horsley Smith & Co. (Hayes), Ltd. Heating Installation: Norris Warming Co., Ltd. Ironmongery: Comyn Ching & Co. (London), Ltd. Light Fittings: The Merchant Adventurers of London, Ltd.; Falk Stadelman & Co., Ltd. Mild Steel Handrails & Balustrades: Clark Hunt & Co., Ltd. Paints: Duresco Products, Ltd. Roof: Stramit Boards, Ltd. Steelwork: Daco Structures, Ltd. Suspended Ceilings: W. H. Colt (London), Ltd. Thermo-plastic Floorings & Roof Finishes: Pilkingtons Asphalt Co., Ltd. Tubular Steel & Plywood Chair and Tables: Kingfisher, Ltd. Veneered & Special Doors and Church Furniture: Walter Lawrence & Son, Ltd. Wood Windows: Wood Windows.



Section through Hall. Scale : 1 in = 8 ft.

The group showing classrooms right of the entrance



THE LAW OF BUILDING CONTRACTS

IV. Responsibility for Control of the Site

BY GILES BEST

IN many building contracts it is essential that the contractor be given absolute control of the day-to-day management of the site. Contracts for the erection of new buildings or plant will usually vest the sole right to occupy the site, and the entire responsibility for its control in the contractor, while reserving the right of the employer and his servants or agents to come upon the site either for purposes of supervision, or in order to execute work connected with the contract but not to be performed by the contractor. Most contracts for the repair or extension of existing buildings will contain clauses to the same effect, and the purpose of this article is to discuss the responsibilities assumed by contractors in taking over responsibility for the site. The position may vary according to the wording of the relevant clauses of the contract, but certain principles are common to situations of this sort.

A contractor may find that the construction of building works involves him in claims of two different classes. The first of these will consist of the claims of adjoining occupiers of land whose property is injured in some way by the contractor's execution of the works, and of claims of local authorities for enforcement of byelaws, etc. The second class of claim will consist of the claims made by individual persons who have suffered personal injury on the site and claim that their injuries were the result of the contractor's default. The first of these classes of claims consists of claims which may be made against either the employee or the contractor, but which are generally agreed to be the contractor's liability, while the second class consists of claims for which the contractor is *prima facie* liable.

The claims of local authorities for rates and taxes, and the service of notice upon them under any byelaws, and the observance of any regulations made by them, are made the express liability of the contractor in Clause 3 of the R.I.B.A. form of contract. The contractor must, under this clause, make himself familiar with the necessary regulations and comply with them. He is entitled to add to the Contract sum the amount of any fees which he may have paid and which were not included in the Bills of Quantities. The contractor's liability for rates as a beneficial occupier of the site was established in a decision of the Court of

Appeal in 1949,* where it was held that a local authority was entitled to demand rates in respect of canteen buildings, etc., which, though not intended to be permanent, were intended to remain in position for a substantial time.

The claims of adjoining owners of property for damage caused in the course of construction of the building works are more likely to be the liability of the employer than of the contractor. The architect is responsible for indicating to the contractor what work is to be done and within what territorial limits. In Clause 4 of the R.I.B.A. contract the architect is made responsible for the accurate setting out of the works, and his duty is either to supply accurate drawings and written instructions or to supervise the work in person. If damage to adjoining property is caused merely by the contractor carrying out the architect's instructions, then clearly the employer is liable and not the contractor. Thus if the building infringed a neighbouring building's right to light, the contractor, if sued, would have the right to indemnity from the employer who ordered the work. Similarly, if the architect misinformed the contractor of his right to go on to neighbouring land, the ultimate liability for the contractor's trespass would fall on the architect or the employer. On the other hand, once the contractor has been fully informed of the rights of adjoining occupiers, and has been adequately instructed as to the laying out of the site, he will be liable if he ignores the instructions he has been given and in doing so injures an adjoining property. In addition to claims for trespass, or for infringement to rights to light or for the observance of restrictive covenants, a claim might also be made under the head of nuisance. It is not uncommon for occupiers of adjoining property to complain of damage caused by noise or vibration from building works and the use of heavy machinery. Most building contracts contain clauses dealing specifically with claims made by adjoining occupiers of property, which attempt to clarify the position so that each party to the contract may know the limits of his responsibility.

Clause 14(b) of the R.I.B.A. form of contract deals with the situation in a way which appears to be that usually adopted. The contractor is made liable

for all injury to property, real or personal, arising out of the execution of the works provided that the injury was caused by the contractor's default. In other words, the employee is *prima facie* liable for all damage to property unless he can show the contractor is to blame. This appears to be the common sense solution to the difficulties which might otherwise arise. The employee is naturally the person with most knowledge of neighbouring owners' rights and he ought to be primarily responsible. Both the C.C.C. Wks. 1 Government form of Building Contract and the L.C.C. form of contract make the same sort of distinction in that the contractor is only to be liable for damage to property if the damage is due to his default.

The R.I.B.A. contract in clause 14 (a) treats the question of liability to persons injured as a result of the building works in exactly the opposite way to its treatment of liability for damage to property as already discussed. The contractor is made liable for all claims for personal injuries unless he can show that the claim arose from the default of the employer or his representatives. The relevant clause in the L.C.C. contract is phrased to have the same effect, but in the C.C.C. Wks 1 contract clause 47 the position appears to be more favourable to the contractor in that he is liable only if he cannot show that the accident did not arise through his default. All three contracts put the responsibility mainly upon the contractor, and this seems only reasonable since he has effective control of the site and is best able to safeguard against accidents to persons coming on or near the site.

The contractor's liabilities, in fact, become those of any occupier of dangerous premises towards a person entering them or passing them. So far as persons passing the site are concerned the contractor's duties fall within the ordinary common law rules as to Negligence and Nuisance. His liability toward persons coming on to the site is somewhat more complicated and, in fact, this branch of the law is the subject of the most recent report of the Law Reform Committee.* The contractor's liability varies according to the character of the persons coming on to the site. There are said to be four different classes

* Law Reform Committee Third Report (Occupier's Liability to Invitees, Licensees & Trespassers) Cmd. 9305.

*Laine V. Kineswood [1949], 1 KB 344.

of such persons and the contractor's liability differs with each class. The classes are: 1, persons coming on the site under a contract with the occupier; 2, Invitees; 3, Licensees; 4, Trespassers.

The duty of care which an occupier of premises owes to persons who come on to the premises in pursuance of a contract is very high. In nearly all cases the court will find that there is an implied term in the contract that the premises will be in a reasonably safe condition. It is only in exceptional cases where it appears that the agreement was that the person entering should take the premises as he found them that this implied term is excluded. In addition, a contractor will generally be bound under the provisions of the Factories Acts and their accompanying regulations to provide safe premises for his workmen. Many people who come on to a building site, however, are under no direct contract with the contractor. Carriers delivering materials, prospective employers of the contractor, representatives of the local authority, visiting architects and even trespassing children are all examples of persons to whom the contractor owes a duty of care even though no contract exists between him and them or their employers.

As the law stands at the moment, an important distinction exists between those persons who come on to the site to do business with the contractor and those who come on to the site with the permission of the contractor but not for the purpose of doing business. Thus a carrier delivering goods to the site is in a different category from a stranger who comes on to the site with the permission of the contractor to see how the work is progressing. The first of these persons is said to be an invitee, the second a licensee. The contractor's duty to persons coming on to the site who can be classed as invitees has been defined as an obligation to take care to prevent the invitee from injury from any unusual danger of which he knows or ought to know. He ought to warn persons in this class of any unusual state of affairs such as a slippery floor, a hole in the floor of a dark room, a piece of scaffolding projecting into a passage way or a tangle of loose wire in a dark pathway. If he fails to do so and a person receives injuries through no fault of his own, then he will be liable. If, on the other hand, the person entering is a licensee then the contractor's duty is merely to warn him of any concealed danger of which he knows, a much lighter burden of care than that toward an invitee.

The distinction between the two classes is complicated and its consequences can be far-reaching and at

times absurd. It has been recommended by the Law Reform Committee that the distinction should be abolished and that the duty of an occupier of premises should be the same toward both invitees and licensees. One expression of judicial opinion has suggested that the distinction no longer exists but it appears that legislation will be necessary before this opinion can be given general acceptance.

The last class of persons coming on to the site consists of trespassers or people who enter without the permission or against the orders of the contractor. A contractor is under no duty to warn them or take any precautions to prevent their injury. They come on to the site at their own peril. On the other hand nothing ought to be done with the deliberate intention of injuring them, such as the setting of a man-trap or spring gun; and if it is known that persons are in the habit of trespassing on land, the contractor must not act with reckless disregard of their safety. Thus, if persons come on to a site without permission to watch the demolition of a factory chimney, the contractor ought to take care to warn them when the operation suddenly becomes dangerous.

A difficulty arises when one considers the contractor's liability toward children who come on to the site. If he has been at pains to exclude them and they manage to reach the site only by wriggling through gaps in fencing it is quite clear that they are trespassers. On the other hand if the contractor knows or ought to know that young children are in the habit of coming on to the site, and he makes no real effort to exclude them, then they may be said to have become licensees. Once this stage has been reached, the contractor may find himself liable a greater extent than he would be toward adult licensees, because children are more apt to stray into danger and are less easily warned of its existence. Unfenced machinery has been said to constitute an "allurement" which tempts children into danger; and an owner ought to take care to prevent a child being trapped by its own curiosity.

As has already been indicated the whole question of the liability of an occupier of premises for damage to persons coming on to the site is extremely difficult and it may be helpful to end with a brief summary.

1. The contractor's duty to persons entering under a contract is to provide safe premises.

2. The contractor's duty to invitees or persons entering for business purposes but not under a contract is to take care that they are not injured by any

unusual danger of which he knows or ought to know.

3. The contractor's duty to licensees or persons permitted to come on to the site other than for business purposes, is to warn them of any concealed danger of which he knows.

4. The contractor's duty to trespassers, who have no right to be on the site, is merely to do nothing which he knows is likely to injure them.

L.C.C. Code of Practice— Means of Escape in Case of Fire

The London County Council has recently revised its Code of Practice dealing with Means of Escape in Case of Fire. The code, in its revised form, supersedes all the Council's previous publications concerning safety precautions and escape arrangements.

It provides in a single short document a guide to the varying statutory requirements concerning escape, including the London Building Acts, 1930-1939, the London Building (Constructional) Byelaws, 1952, the Factories Act, 1937, the Public Health (London) Act, 1936, the L.C.C. (Celluloid, etc.) Act, 1915, and the Council's Theatre Regulations. Full advantage is taken of the results of modern investigation and research into this problem, which continues to attract considerable attention in order to meet present day constructional requirements. It will be recalled that amongst its Post-War Building Studies, the Ministry of Works included a publication on the "Firegrading of Buildings."

The main changes include the recognition, as an interim place of safety in the process of evacuating a building, of a protected staircase and/or corridor—thus enabling the one-staircase type to be further developed; the revision and expansion of the classification of the various forms of occupation to include most building types; the reconsideration of population densities in various types of buildings in the light of present day requirements and the clarification of the requirements for stairs, gangways, corridors, enclosures, lifts, doors, etc. Modular sizes have also been established for staircase and door widths.

The means of escape requirements for residential properties, including flats and maisonnettes have also been revised. Certain relaxations are introduced which will particularly affect the current trend towards high point-block buildings.

The code is now obtainable at 6d per copy (postage extra) (Publication No. 3868) from the County Hall, Westminster Bridge Road, S.E.1, or Staples Press, Ltd., Mandeville Place, London, W.1.

Why the Stockholm Playgrounds Are So Successful

BY LADY ALLEN OF HURTWOOD, F.I.L.A.

WE all want to see more and better playgrounds, but the questions of providing space and using that space to the best advantage are the two most urgent problems. It is my belief that no matter how well equipped a playground may be, the children will eventually lose interest and go back to the streets, unless there is a grown-up in the playground to bring it to life. In Stockholm they have largely solved both problems; in that city, with a population rather less than Liverpool and rather more than Manchester, there are seventy-two playgrounds, each with a full-time play leader, and many other playgrounds that are unsupervised. The play leader might be described as a kind of playground host, and his or her job is to see that the children have a good time. They are, in fact, counsellors and friends to the children and to their parents. Completely free activity is encouraged, but there is usually also group occupation and entertainment, in which any child is welcome to join at any time.

Most of the playgrounds are divided into different sections by gay hedges of flowering shrubs, or by a low open green fence. All have undulating grass areas with no restrictions as to their use, and, sensibly, a sum of money is always allocated to relay or resow the worn parts. On the dry section of hard rolled sand or asphalt many organized and unorganized games are played, and the lines, circles and squares for the different games are painted in gay colours to brighten up the playgrounds. The swings and slides, which are less elaborate and safer than those in this country, are separated from the places where the children are running about, and the swings for the small children are separated from those for the older ones by flowering hedges. Each playground has a half-size soccer court for the younger boys, which is also used for netball and basket-ball; this is fenced, but is always open.

Each playground has a sandpit of generous size, filled with fine sand and drained. There appears to be no objection from the health authorities as it is known that the air, sun and rain keep the sand fresh and wholesome. It should be noted, however, that no dogs are allowed in the playgrounds; in fact, all dogs in Stockholm have to be on a lead all the time. Many of the playgrounds have imaginatively designed shallow paddling pools with rocks and small waterfalls, but, where these are impossible, the children run under a vertical whirling spray on the asphalt, with a central drain. These are immensely popular and inexpensive. The pools are drained in the Spring for roller skating and in winter they are sprayed with water for ice skating.

None of the playgrounds is enclosed, and they are free for the children to use all the year round. Each has some facilities under shelter, such as a room for the leader, a store for movable equipment, and often a room where the children can play or work during rainy weather. The play leaders invent special games for the cold weather.

The essential characteristic of the Stockholm playgrounds is that, with a play leader present, it is possible to have a great variety of movable equipment which can

be borrowed freely by the children. There are table games in great variety, played out-of-doors, such as chess, draughts, dominoes and many others that have been collected from many parts of the world. The children can also borrow croquet sets, golf, box hockey, jumping poles, stilts and high-jump apparatus, but perhaps the most popular of all is table tennis played out-of-doors in sheltered places. Carpenters' benches have recently been introduced, with workmanlike tools and waste wood. Clay modelling and painting are also very popular. Inexpensive apparatus that gives great delight are solid wooden building bricks which are kept in a large wooden lock-up chest, the side of which lets down to make a shop. The children collect these bricks in solid four-wheeled trucks, and carry them to different parts of the playground to build houses, improvise theatres, and to use in a thousand different ways. All this movable equipment is returned by the children after use, and all is stacked away in sheds at dusk. In each playground a small plot is set aside as a children's garden, which is dug and sown by the children themselves, and surrounded by a low wooden green fence. When the sunflowers and annuals are in flower, the children are allowed to pick small bunches to take home to their mothers or to a sick friend. These gardens are decorative and gay and are much enjoyed; a kindly Park Superintendent sees that good, fertile soil is available.

Each playground has a special exhibition every year on a Saturday afternoon to show the parents what happens in the playgrounds, the games that are played, the tools that are used and the general activities. Every summer selection contests are arranged in the playgrounds of ball games, throwing the lasso, stilt walking, table tennis, chess and all the other playground activities, and at the end of the season the winning teams from each playground meet for the finals in a central park, to which parents and friends are invited for a gala day. The playground with the highest score obtains the cherished Iron Crown, which the children erect in their own playground until next year.

The Stockholm Children's Theatre tours the playgrounds in the summer, Punch and Judy shows travel around and the Magic Man tours in a decorated car. All these activities are deeply appreciated by the children, and endless spontaneous acting activities result. Specialists in dramatics, puppetry, sports and carpentry visit the playgrounds from time to time to help the play leaders.

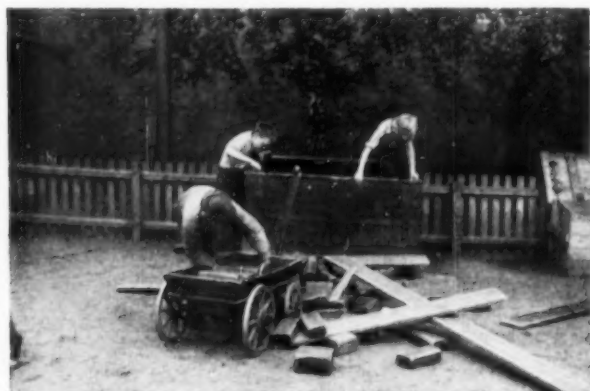
All this rich activity is only possible with a play leader. It is all good fun, and could easily be organized in our own parks and playgrounds. The Chief Playground Inspector is a member of the Parks Department, and under her are six section leaders, each controlling one district with about 12 playgrounds. Each playground has one leader and one or two assistants or students. Before play leaders are appointed they must have had some training in group work for children or practical experience in camps, scouts, children's homes, or be nursery school teachers or physical training instructors. They attend special short courses each spring, and in the winter an evening course once a week is arranged for them. All are over 20 years. Their salary should be the same as a teacher, as it is in the



An imaginative sailing and paddling pool



Table seats for games and painting



Wooden bricks being collected in four-wheeled truck



Table tennis in a sheltered corner



A carpenter's bench and workmanlike tools



Picking flowers from the playground garden

United States of America, but in Stockholm it is rather lower.

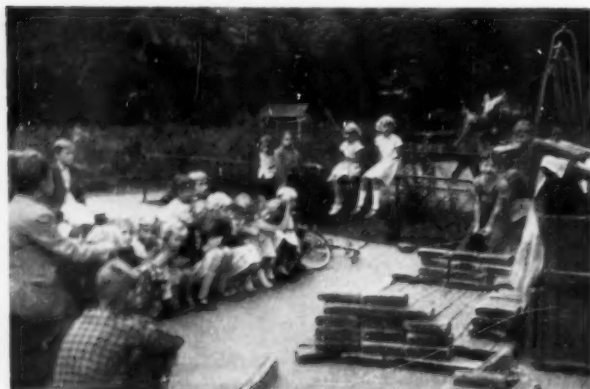
Each child takes home to its parents an illustrated leaflet showing the plan of Stockholm, the position of each playground, the facilities available, the dates of special events and whether the playground is supervised or not. Each supervised playground has a sunflower sign at the entrance saying when the movable material is available

and when the leader is there (usually 9 a.m. to 5 p.m.), and that all children up to 15 are welcome.

The parents fully understand that there may be accidents in their own homes, or in the street, or indeed in the playground itself; consequently, there is no insurance coverage, but all equipment is inspected every day by the leader. A private contractor tours the playgrounds during the summer to do minor repairs, and all movable equip-

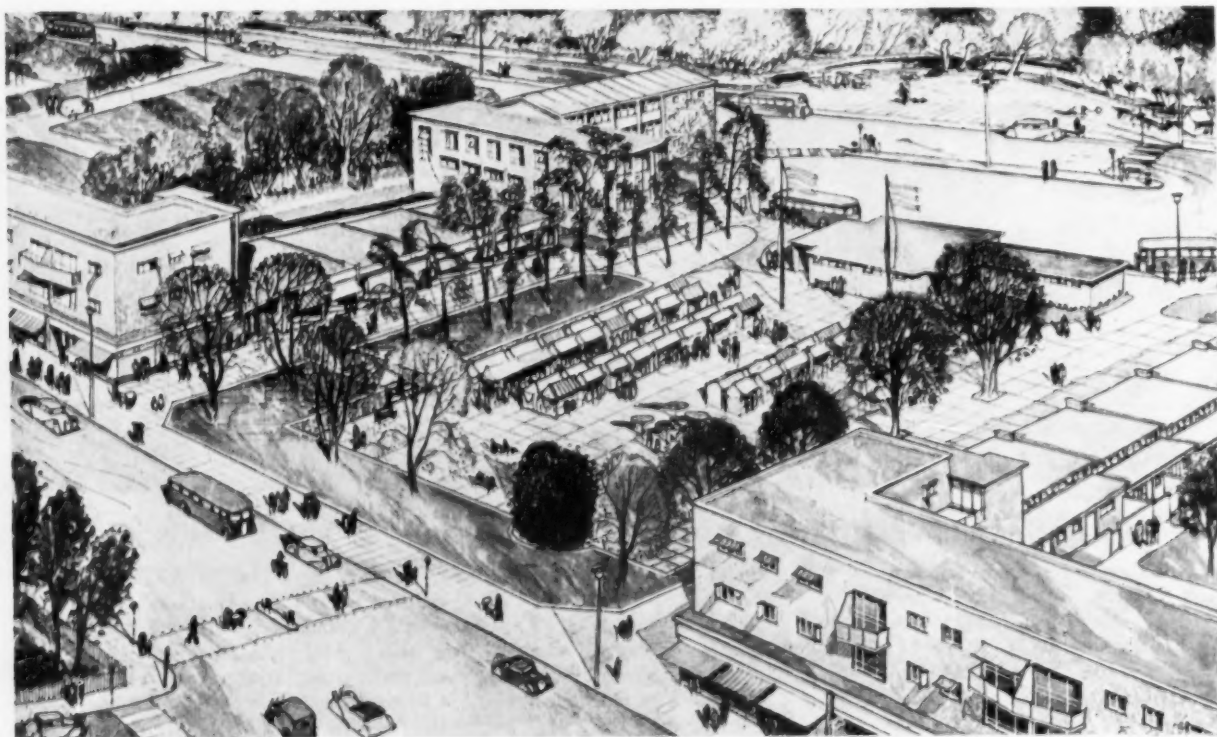
ment is taken to a central workshop for renovation during the winter.

There seems to be no reason whatever why one of our great towns should not at least try an experiment of this kind that has proved to be so successful. There seem to be three obstacles, all of which, however, could be overcome with a grain of common sense. In this country the Parks Department say they are not concerned with playgrounds of this kind, which they describe as educational, and the Education Department say they have no space; this divided control makes progress impossible. In Stockholm all the playgrounds and their supervision are the responsibility of the Parks Department. Some of our educationalists say that the children, when they are out of school, should be free from all supervision so that they can enjoy themselves in their own way. The fallacy of this argument is, of course, that the children do not fully enjoy themselves in the playgrounds we provide, as the play is mostly passive and dull. The third obstacle, at which all Local Authorities throw up their hands in horror, is the imagined expense of paying the salary of the play leaders. Stockholm claims, however, that it is considerably cheaper to pay the leaders than to waste much money on expensive equipment which, because of its potential danger, has to be fenced in at great expense. The playgrounds in Stockholm are never closed or fenced. In any case, in England, where this expensive equipment is provided, one mostly finds some dear old lady in a hut, many of whom have graduated up into the open air from caretaking ladies' lavatories; these charming but unskilled ladies, called gymnasium attendants, are paid £5 5s 10½d for a 44-hour week, and so part, at least, of the salary of the leader is already there.



Improvised theatre made from wooden bricks

In this country our playgrounds are often unused for long periods because on Sundays there is no one to watch for dangerous accidents on the equipment and they must, therefore, be closed, and also, when the children are at school, the playgrounds are mostly deserted because the pre-school children cannot use the dangerous equipment unless they are accompanied by an adult. This would seem to be a very wasteful use of space and opportunities, since these playgrounds could well be used for the younger children during school hours if a play leader were there with a supply of simple, inexpensive, movable materials. This might well be the means of solving some of the problems of where the under-fives could play in safety and happiness to the great relief of hard-pressed mothers.



Sketch of the Town Centre Square, Hemel Hempstead, from the air

H. K. Ablett, F.R.I.B.A., M.T.P.I., Chief Architect, Hemel Hempstead Development Corporation

Window Furniture

This is the fourth article of the series which are appearing once a month dealing with building accessories. The next article will deal with taps and stopcocks.

AT one time the blacksmith made the fittings for both wood and metal windows, but since most windows are now factory-made, so the fittings must needs follow suit. Blacksmith-made fittings were, of course, wrought in iron, and many beautiful period examples are still to be seen in very old buildings. One or two firms specialize in making reproductions of these wrought iron fittings for use where required.

Wrought iron windows were succeeded by cast iron, and here again the window furniture was largely cast in the same metal, although cast bronze fittings were supplied with windows intended for buildings other than factories and the like.

Windows made with rolled steel are now universal and the larger manufacturers offer their own range of fittings from which the architect may make his choice. Some firms employ their own full-time designers and staff who are constantly revising and adapting existing designs, or creating new window furniture for special work, or from architects' own sketches. Examples of window fittings which have been designed in the metal window industry are the cup pivot for horizontally swinging ventilators, the cam opener, the two-point handle for side hinged casements, and more recently the friction-held "cleaning" hinge.

During and after the last war, the use of bronze for window furniture was prohibited. Cast iron, steel pressings and cast aluminium took its place, but were abandoned in favour of bronze immediately the ban was lifted.

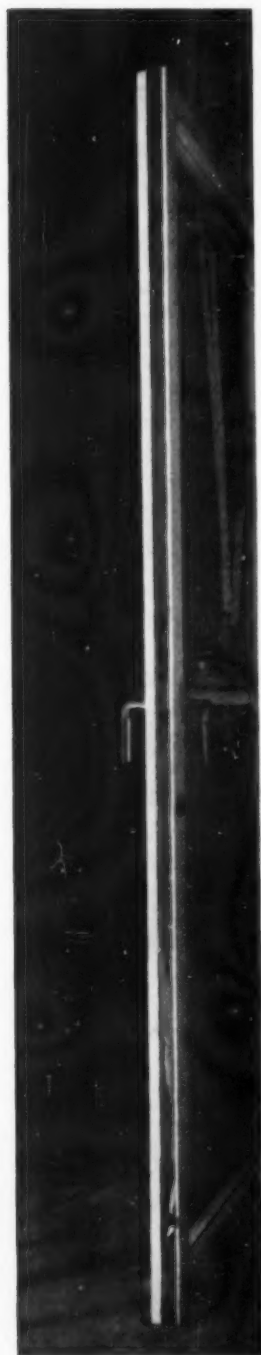
Bronze is far superior in appearance to cast iron or steel pressings, never rusts, and "handles" better. Aluminium window fittings must be thickened at stress-points before they possess the same strength as bronze. This results in a coarsening of the design and it must therefore be true to say that design if cast aluminium should be approached separately, and not as a modification of an original design for bronze.

It may be worth mentioning here that at least one metal window manufacturer supplies (and indeed recommends for the higher order of buildings) bronze fittings which have been toned and polished. Such fittings are carefully wrapped before despatch and they should not be fitted until after the windows have been fixed, glazed and painted. The handsome tone and polish on the bronze will then remain unblemished and continue to do so indefinitely, requiring only a periodical application of "Ronuk."

Painting of window fittings can be harmful to their efficiency, since surplus paint will always run into the moving parts and having dried hard, may have to be soaked out with paraffin before the window can be opened or closed properly. Replacement of broken fittings, caused by forcing after being blocked by paint, can be avoided by refraining from applying too many coats of thick paint—or better still, by not painting at all, where the fittings are of good appearance and quality. Now that the bogey of rust has been well and truly laid by the hot-dip galvanizing process, there can be even less excuse than ever for neglect of maintenance. The cry of "It takes me all my time to keep the windows painted" can no longer be made an excuse for not walking round a building with an oilcan twice a year, putting a drop or two of oil on hinges, pivots, and other moving parts of a window's fastenings and adjusting devices.

Turning now to the design of metal window furniture during the last fifty years, one notices a progressive simplification. Enrichments vanish, mouldings are smoothed away, curves flattened and to-day's casement handle stands clean-cut in line, smooth-surfaced and looking as coolly efficient as the modern car or aircraft. It enjoys one of the benefits brought about by British Standard Specification 990*, that of interchangeability

* The other British Standard relating to window furniture is 1331.



A typical example of the "Fix Espagnolette" bolt by Tomo Trading Co. Ltd., which is set in a rebate on the edge of the door.

and, if of a reputable make, will last indefinitely.

The housewife of to-day appreciates any labour-saving device in her home, such as a window shorn of unnecessary "ironmongery" which will yet open and close with controlled ease and precision. To enable the architect and builder to meet this demand, a casement hinge has been developed with a patented friction bearing in the pintle, which, it is claimed, holds the casement open without any additional attachment, such as the peg or sliding stay. This is an advantage, the cill is clear of obstruction, the inside of the window is easier to clean, and yet the casement will not "slam to" in a high wind, owing to the carefully adjusted friction bearing. This hinge is also of the extended type, enabling the outside of the window to be safely cleaned from inside.

Window Gearing

"How to operate that fanlight" is a question which has puzzled many people. Some are driven to the belief that window manufacturers—and perhaps architects, too—expect them to spend their lives climbing on chairs, or fishing wildly for a small ring-handle with a long and unwieldy pole.

Rod and lever gearing, of the old-fashioned greenhouse type, is efficient but usually unsightly, though some firms have produced an interesting variation of this gearing for use on a central mullion which is far neater than the conventional pattern. Rod and lever gearing, in fact, is mainly suited to roof lights, or to long ranges of windows in clerestories, gymnasia, or factories.

The single fanlight can now best be operated by one of the new forms of cable or remote control gearing which are sold under various proprietary names. Based on Continental practice, but far superior to their original models in strength and design they are easy to operate and neat in appearance; like most good things they are expensive. Recent developments have enabled this type of control to be applied to groups of ventilators as well as to single fanlights. For clients who hate to see machinery at work the control tubes can sometimes be buried in the plaster or hidden behind panelling.

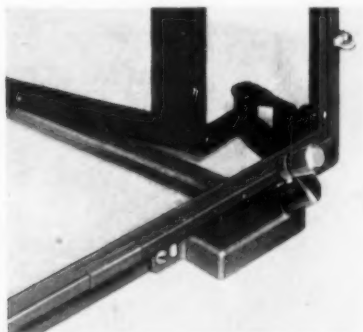
For really extensive ranges of ventilators electric control is now considered almost indispensable, and a variety of tension rod gearing—single, double, vertical, or horizontal—can be provided, which need far more than a short article for their proper description.

Manufacturers and Suppliers

ROBERT ADAMS (VICTOR), LTD.,
139a Staines Road, Hounslow, Middlesex.—Hounslow 5714.
G. & S. ALLGOOD,
12 Eagle Street, London, W.C.1.—Chancery 4771.
ARENS CONTROLS, LTD.,
Tunstall Road, East Croydon, Surrey.—Addiscombe 3051/4.
BAXENDALE & CO., LTD.,
Miller Street, Manchester, 4.—Blackfriars 8282.
BROAD & CO., LTD.,
4 South Wharf, London, W.2.—Paddington 7061.
CAKEBREAD, ROBEY & CO., LTD.,
Caroba Works, High Road, London, N.22.—Bowes Park 1212.
WALTER CASSEY, LTD.,
7 Great Turnstile, London, W.C.1.—Chancery 8726.
COMYN CHING & CO. (LONDON), LTD.,
15-21 Shelton Street, London, W.C.2.—Temple Bar 9123.
H. W. COOPER & CO., LTD.,
3, 4 & 5 Plympton Street, London, N.W.8.—Paddington 4219.
CLARK, HUNT & CO., LTD.,
318 Southbury Road, Enfield, Middlesex.—Howard 1421.
CRITTALL MANUFACTURING CO., LTD.,
210 High Holborn, London, W.C.1.—Holborn 6612/9.
W. DIBBEN & SONS, LTD.,
76-79 St. Mary's Road, Southampton, Hants.—Southampton 23800.
DOODSON & BAIN, LTD.,
Wilson Street Works, Manchester, 11.—East 1456.
DRYAD METAL WORKS, LTD.,
Sanvey Gate, Leicester.—Leicester 60457.
B. FINCH & CO., LTD.,
Belvedere Works, Sherwood Road, Ilford, Essex.—Valentine 8888.
W. N. FROY & SONS, LTD.,
64 King Street, Hammersmith, W.6.—Riverside 4101.
GARDINER SONS & CO., LTD.,
Nelson Street, Bristol, 1.—Bristol 20011.
GIBBS & DANDY, LTD.,
34 George Street, Luton, Beds.—Luton 4110.
ALFRED GOSLETT & CO., LTD.,
127-131 Charing Cross Road, London, W.C.2.—Gerrard 7890.
HENRY HOPE & SONS, LTD.,
Halford Works, Smethwick, Birmingham.—Smethwick 0891.
INGERSOLL LOCKS, LTD.,
Ingersoll House, Kingsway, London, W.C.2.—Covent Garden 1626.

LAIDLAW & THOMSON, LTD.,
60 Cannon Street, Manchester.—Blackfriars 5766.
LEWIS & GRUNDY, LTD.,
Pelham Street, Nottingham.—Nottingham 45781.
WM. NEWMAN & SONS, LTD.,
Hospital Street, Birmingham, 19.—Aston Cross 3221/3.
NICHOLLS & CLARKE, LTD.,
Nielar House, Shoreditch, London, E.1.—Bishopsgate 4842.
NORLOND SERVICE (BUILDERS' MERCHANTS), LTD.,
724 Holloway Road, London, N.19.—Archway 3010.
PARKER, WINDER & ACHURCH, LTD.,
251 Broad Street, Birmingham, 1.—Midland 5001.
H. R. PAUL & SON, LTD.,
Broad Street, Barry, Glamorgan.—Barry 148.
JOHN PHILLIPS, LTD.,
61 Farringdon Road, London, E.C.1.—Holborn 2415.
PRYKE & PALMER, LTD.,
40-41 Broken Wharf, Upper Thames Street, London, E.C.4.—Central 5521.
N. F. RAMSAY & CO., LTD.,
Charlotte Square, Newcastle-on-Tyne, 1.—Newcastle 24275.
ALFRED G. ROBERTS, LTD.,
182-3 Upper Thomas Street, London, E.C.4.—Central 8702/4.
ROWE BROS. & CO., LTD.,
Victoria House, Queen Street, Exeter, Devon.—Exeter 4134.
ROWNSON, DREW & CLYDESDALE, LTD.,
225 Upper Thames Street, London, E.C.4.—Waterloo 6321.
J. & H. SMITH, LTD.,
16 Harrison Street, Leeds, 1.—Leeds 21561.
STANDARD RANGE & FOUNDRY, LTD.,
Queens Road, Watford, Herts.—Watford 6484.
STEDALL & CO., LTD.,
164 High Holborn, London, W.C.1.—Temple Bar 1540.
TAYLOR, PEARSE & CO., LTD.,
345 Gray's Inn Road, London, W.C.1.—Terminus 3521.
TEUTEN-DAVIS BENNETT, LTD.,
206 Long Lane, London, S.E.1.—Hop 4821.
TOMO TRADING CO., LTD.,
Packet Boat Dock, Cowley Peachey, nr. Uxbridge, Middlesex.—West Drayton 3023.
WALKER & WOOD, LTD.,
3 Lionel Street, Birmingham, 3.—Central 7521/4.
F. P. WALTHO, LTD.,
St. James' Square, Wolverhampton.—Wolverhampton 21090.
NEVILLE WATTS & CO., LTD.,
8-10 Fitzwilliam Street, Sheffield, 1.—Sheffield 28831.
WILLIAMS & WILLIAMS, LTD.,
Victoria House, Southampton Row, London, W.C.1.—Holborn 9861/5.

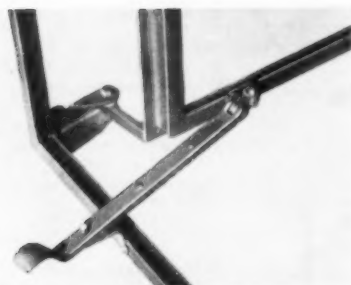
Miscellaneous Fittings



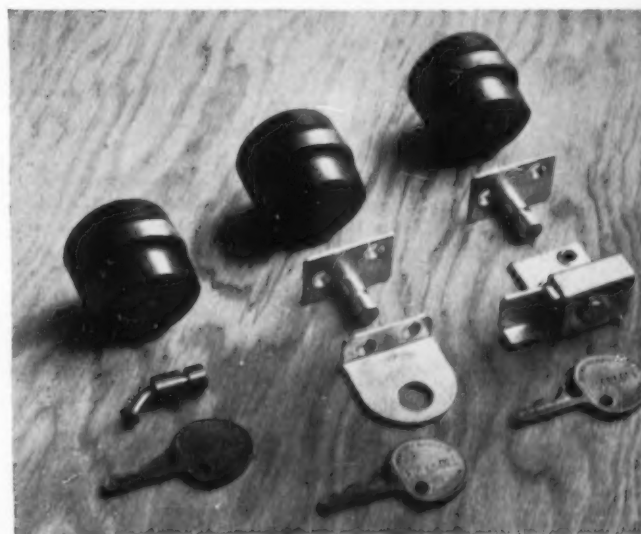
Roto operated window fly screen by Williams & Williams Ltd.



Satin finished aluminium locking espagnolette bolt handle by Crittall Manufacturing Co. Ltd.



Extended hinge and peg stay for standard metal windows by Williams & Williams Ltd.



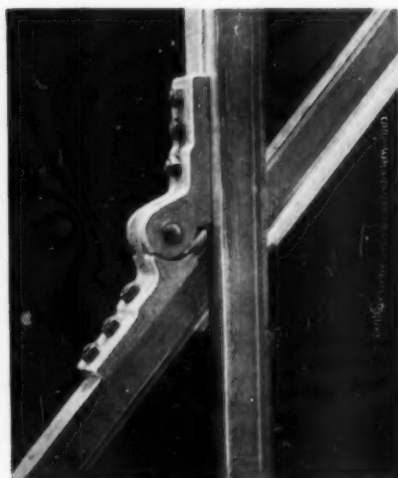
"Limpet" cylinder locks by Ingersoll Locks Ltd., in bronze. No. 61 for metal casements, No. 62 for wooden casements and No. 63 for wooden sash windows. Cylinders are 1½ in dia and 1½ in long. Key mechanism incorporates four pin-tumblers. Lock is independent of lever or handle. A peg provided with the lock is attached to the window frame. The lock, which is fixed to the window, is pressed on to the peg and automatically locks itself; it can only be released by the key

Left

Special pivot for power station windows by Henry Hope & Sons Ltd. Specifically for large horizontally pivoted swing ventilators, this pivot is designed to leave the channel of the frame unobstructed so that no lodgment is found for silt, soot, etc., which falls in great quantities around power stations and blocks the normal type of pivot

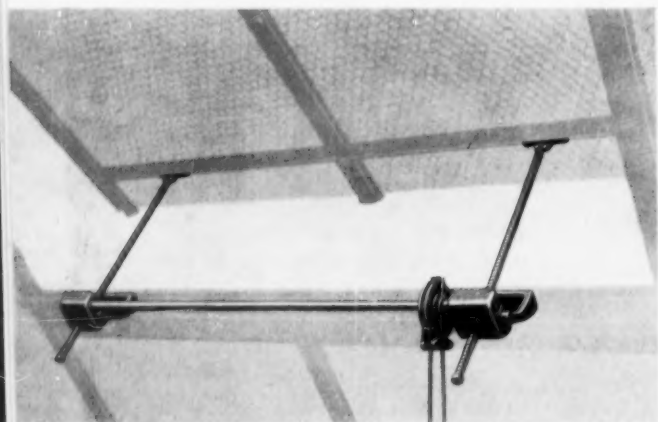
Far left

Friction hinge as fitted to all standard domestic type windows (B.S.S. 990) by Henry Hope & Sons Ltd. This hinge holds the casement firmly in position without the aid of a stay



Remote Control Gear

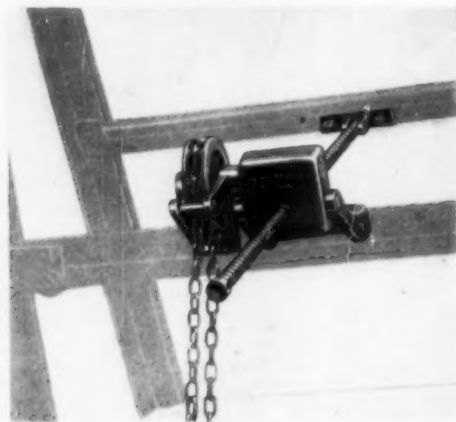
Remote Control Gear can be supplied to order by most firms mentioned in our lists but is not usually kept in stock.



1

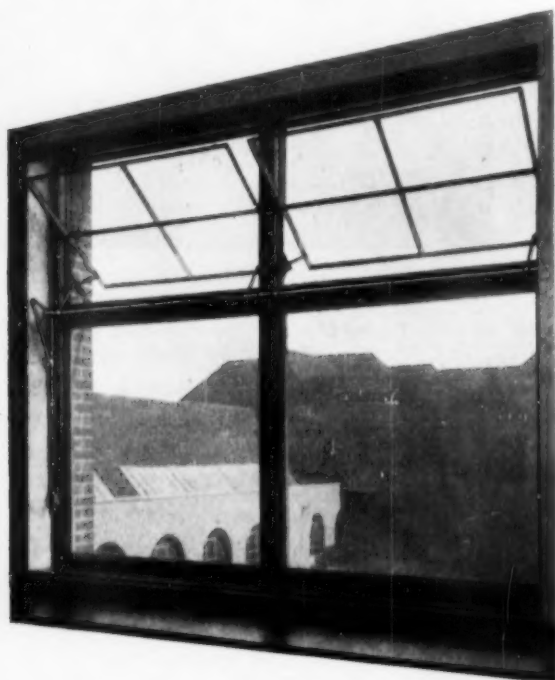


2



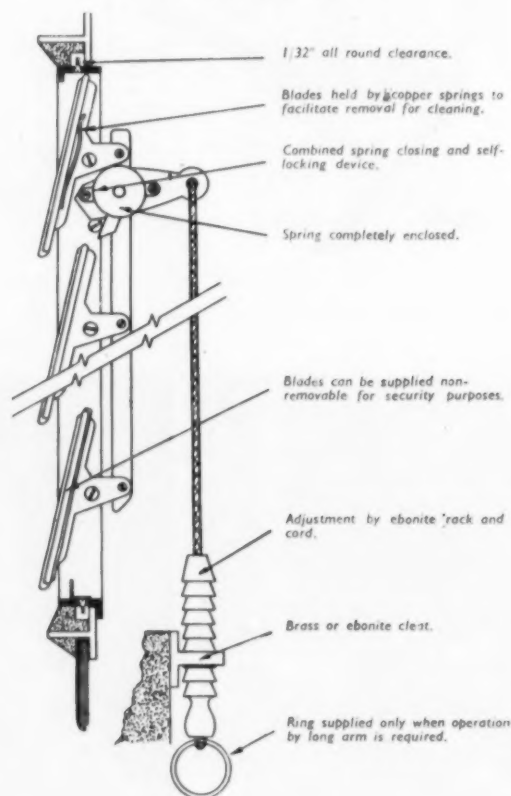
3

Three examples of chain- and cord-operated opening gear by Parker, Winder & Achurch Ltd. 1 The "Stafford Twin" cord-operated skylight opener No. P.A.1510S in black finish with brass screwed rods. 2 "Allways" opener for fanlights and skylights No. P.A.1598 with bronzed iron and brass wheel. 3 "P.G.C." No. 1654 opener for single pane opening lights in vertical and roof glazing. Endless chain is polished brass



The "Osborne" gearing No. P.A.1641 by Parker, Winder & Achurch Ltd. This gear is suitable for top hung, horizontal centre hung and bottom hung lights. The gear is made in different sizes to suit each order. Any number of lights not exceeding 100ft overall length can be operated by one set of gear with gearbox fixed near centre of range. When gearbox is required to fix at side of window in a reveal, an angle gearbox is supplied

Adjustable Louvre Ventilator by
H. W. Cooper & Co., Ltd.





4

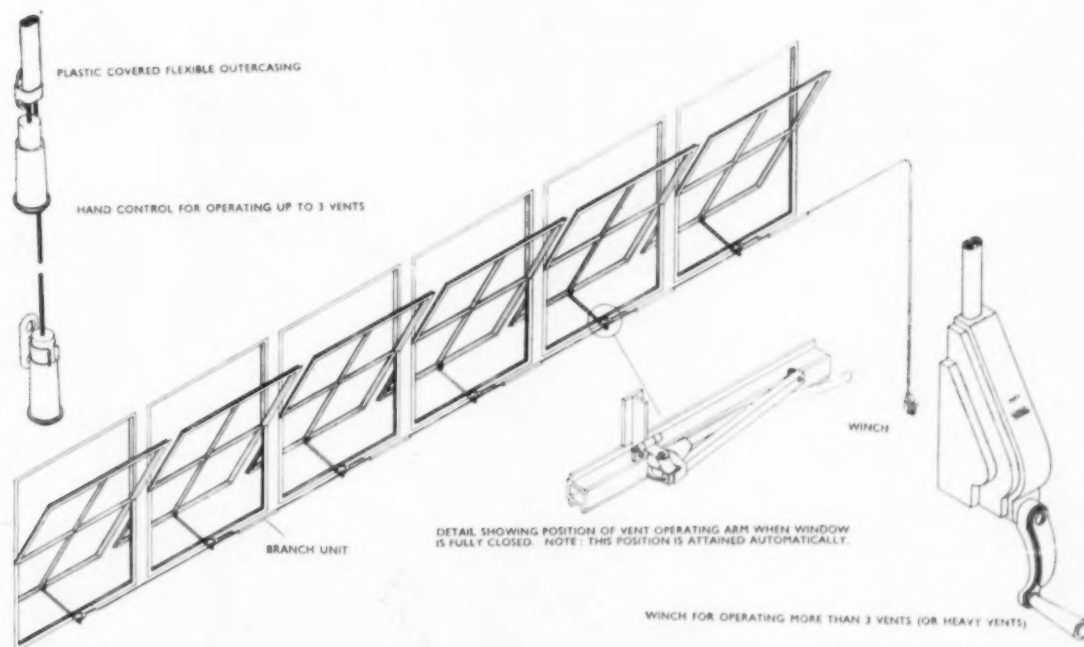


5



6

4. "Leggot's" Fanlight opener No. PA1580 by Parker, Winder & Achurch Ltd. 5 and 6 show bronze grip handle and hand-operated gearbox for Henry Hope & Sons cable-control window gear. These operate, respectively, single and two or more casements. For single casements the operating cable can be concealed and in the gearbox method all moving parts are totally enclosed in steel tubing



The Arens mechanical remote-control provides a simple and efficient means of transmitting reciprocating motion to a point remotely situated in relation to the operator. The control transmits positive push-pull motion operating on the reaction principle and consists of a conduit containing a flexible inner member, the latter being the medium for transmitting energy and the former providing support and the reactive restriction at the bends

Abbreviations used in tables

| | | | |
|--------|------------------------|-----------|-----------------------------|
| A.A.I. | Anodized Aluminium | C.B. & R. | Copper Bronzed and relieved |
| A.B.I. | Art Black Iron | C.P. | Chromium Plate |
| A.C.B. | Antique Copper Bronzed | I. | Iron |
| Al. | Aluminium | M.I. | Malleable Iron |
| B.B.I. | Berlin Black Iron | P.B. | Polished Brass |
| Bk. | Bakelite | S.B.B. | Sheradized and Berlin Black |
| B.M.A. | Bronze Metal Antique | S.C.P. | Satin Chromium Plate |
| Br. | Brass | S.S. | Stainless Steel |
| Bz. | Bronze | | |

Casement Fasteners

1. New casement handle No. 1379/80 HS by Crittall Manufacturing Co. Ltd.



2. Bronze handle No. 1393 by Henry Hope & Sons Ltd.



3. Bronze handle No. 1703 by Henry Hope & Sons Ltd.



4. Handle No. 2347 by Henry Hope & Sons Ltd for casements glazed inside with minimum projection over glass.



5. Bronze handle No. 497 by Henry Hope & Sons Ltd.



6. Ring handle No. 1175HS by Crittall Manufacturing Co. Ltd. for projected out windows—hand or pole operation.



7. Two-point handle for standard metal windows by Williams & Williams Ltd.



8. Bronze handle No. 2022 by Henry Hope & Sons Ltd.



9. Bronze 2-point handle by Henry Hope & Sons Ltd. as fitted to standard domestic type windows (B.S.S.990).



10. "Through the section" handle No. 1279HS for flyscreened windows by Crittall Manufacturing Co. Ltd.



11. Wedge plate casement fastener No. LG737 by Lewis & Grundy Ltd.



9

10

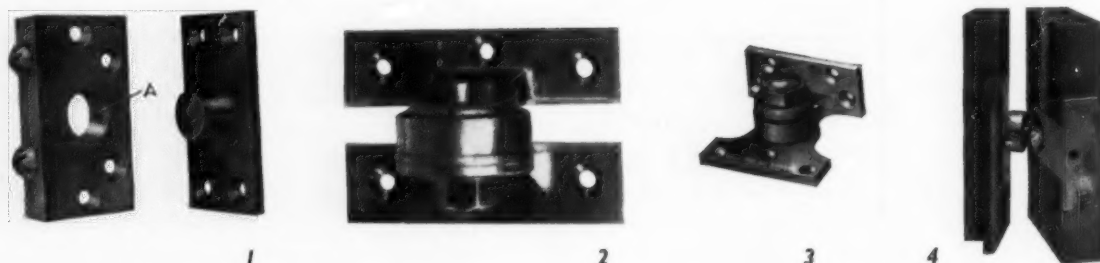
11

CASEMENT WINDOWS — STAYS & FASTENERS

| Supplier | Types in stock | Finishes | Price Range | Remarks |
|--|--------------------------|---|---|--|
| ROBERT ADAMS (Victor) LTD. | 12 of each | A.Al., C.P., Br., B.M.A. | Stays 5/6 to 24/- Fasteners 3/6 | Specials supplied |
| G. & S. ALLGOOD ... | Many | All finishes | On application | Specials supplied |
| BAXENDALE & CO. LTD. ... | 22 | Black, A.C.B., B.M.A., Chrome, A.Al. | 1/- to 14/- | Best sellers: Black stay and 2 pin type fastener. Combined stay and fastener is also popular |
| BROAD & CO. LTD. ... | 20 | M.I., Br., B.M.A., C.P., S.S., A.Al. | 1/- to 12/6 | Best sellers: M.I. and B.M.A. |
| CAKEBREAD, ROBEY & CO. LTD. | 8 Stays 21 Fasteners | B.B., C.B. & R., Br., B.M.A., C.P. | 13/4 to 120/- per doz. | Best sellers: L321 Fastener and L302 Stay. Specials supplied |
| WALTER CASSEY LTD. ... | Many | All finishes | On application | Specials supplied |
| COMYN CHING & CO. (London) LTD. | Many | B.B.I., B.M.A., Br., C.P., Al. | 1/- to 30/- | Sizes 8in, 10in, 12in and 15in, to open in and out, in stock. New catalogue being produced. Best sellers: C.1887 stay and C.3660 fastener, both in B.M.A. Specials supplied. |
| CLARK, HUNT & CO. LTD. ... | 20 | A.B.I., Br., B.M.A., C.P., Die cast zinc alloy in many finishes | On application | "AGCO" controlled casement stay holds window securely in any position and particulars on request |
| W. DIBBEN & SONS LTD. ... | 21 Stays 24 Fasteners | B.I., Br., Bz., C.P., B.M.A. | Stays 9d to 17/6 Fasteners 8d to 14/- | Best sellers: HS.249, 250, H.1800 The range of patterns is comprehensive and suitable for all styles of building |
| DOODSON & BAIN LTD. ... | 4 | Rumbled, Toned, B.M.A. | On application | Best sellers: FD83 Handle, FD119 Peg Stay |
| DRYAD METAL WORKS LTD. ... | 6 | B.B., B.M.A., C.P., S.C.P. | 4/6 to 23/9 | Best sellers: C.3 Fastener, C.8 Stay. Catalogue available. Specials supplied |
| B. FINCH & CO. LTD. ... | 18 | Japanned Iron, B.M.A., C.P., A.Al. | On application | Best sellers: S.240 Stay, S.242 Fastener. Specials supplied |
| W. N. FROY & SONS LTD ... | Many | All finishes | On application | Catalogue available. Specials supplied |
| GARDINER SONS & CO. LTD ... | 44 | A.B., B.M.A. finish, real B.M.A., C.P., A.Al. | 1/2 to 27/- | Best sellers: Stay G3734 A.B.I., Fastener G3801 A.B.I., Stay G3761 C.P. & B.M.A., Fastener G3760 C.P. & B.M.A., G369 Telescopic pattern, self adjusting, G3743 casement bolt suitable for locking casement window. Catalogue available |
| GIBBS & DANDY LTD. ... | 12 | All finishes | 1/- to 15/- | — |
| ALFRED GOSLETT & CO LTD. | 6 | B.M.A. finish on diecast alloy, B.M.A. on brass, C.P., B.B.I. | 1/- to 10/- | Best sellers: R27293 in B.B. and R27577 in B.M.A. finish and C.P. Specials supplied |
| HENRY HOPE & SONS LTD. ... | Many | All finishes | On application | Specials supplied. Catalogue available |
| LAIDLAW & THOMSON LTD. ... | 36 of each | B.B., Br., C.P., B.M.A. | 10d to 20/- | Best sellers: Nos. 2830 and 3606. Specials supplied |
| LEWIS & GRUNDY LTD. ... | Many | All finishes | On application | New catalogue being prepared. Specials supplied |
| NICHOLLS & CLARKE LTD. ... | Many | All finishes | On application | Specials supplied |
| NORLOND SERVICE (Builders' Merchants) LTD. | Many | All finishes | On application | — |
| PARKER, WINDER & ACHURCH LTD. | Many | Iron, B.B., S.B.B., P.B., B.M.A., C.P. | On application | Catalogue available. Specials supplied |
| H. R. PAUL & SON LTD. ... | Many | All finishes | On application | — |
| JOHN PHILLIPS LTD. ... | Many | Br., B.M.A., C.P., S.S. | 30/- per doz. to 30/- each | New catalogue being prepared. Best sellers: Nos. 1118 and 1120 |
| PRYKE & PALMER LTD. ... | Many | All finishes | On application | Most designs can be supplied |
| N. F. RAMSAY & CO. LTD. ... | 24 | A.B.I., B.B.I., B.M.A., Br., C.P., S.C.P., M.I. | 1/- to 45/- | — |
| ALFRED G. ROBERTS LTD. ... | 12 | B.B.I., Br., Bz., C.P., Al. | 1/- to 15/- | Best seller: No. 3394 |
| ROWE BROS. & CO. LTD. ... | 19 of each | B.B.I., B.M.A. finish, real B.M.A., C.P. | 1/- to 25/- | Largest sales are still in Black Iron but No. 3397 B.M.A. on Brass is best seller in better range. Specials supplied |
| ROWNSON, DREW & CLYDESDALE LTD. | 6 | A.B.I., Br. alloy, C.P. alloy, real B.M.A. | 9d to 9/- | Best sellers: Nos. W6015 and W6016 |
| J. & H. SMITH LTD. ... | 10 | B.B.I., A.Al., B.M.A., Br., Bz., C.P. | Stays 1/3 to 13/- Fasteners 9d to 14/- | Best sellers: "Wedge" pattern fasteners. Non-stock patterns can be obtained to order. Catalogue now in course of preparation |
| STANDARD RANGE & FOUNDRY LTD. | Many | All finishes | On application | Specials supplied. New catalogue being prepared |
| STEDALL & CO. LTD. ... | Many | All finishes | On application | Specials supplied. Catalogue available |
| TAYLOR PEARSE & CO. LTD ... | Many | All finishes | On application | Specials supplied |
| TEUTEN-DAVIS BENNETT LTD. | 10 | B.B.I., B.M.A., C.P., Br. | 1/3 to 20/- | Specials supplied. New catalogue being prepared |
| TOMO TRADING CO. LTD. ... | Many | Nickel and C.P. | On application | Best seller: No. 250. Reversible handling is a feature. Catalogue available |
| WALKER & WOOD, LTD. ... | Many | All finishes | On application | Best sellers: Fastener No. F93, Stay No. S100. Specials supplied. Catalogue available. |
| F. P. WALTHO LTD. ... | Many | All finishes | On application | Best seller: No. D1296 patent safety pattern stay. This model incorporates an "L" shaped loop to prevent the casement flying outwards. |
| NEVILLE WATTS & CO. LTD. ... | Many | All finishes | On application | Specials supplied |

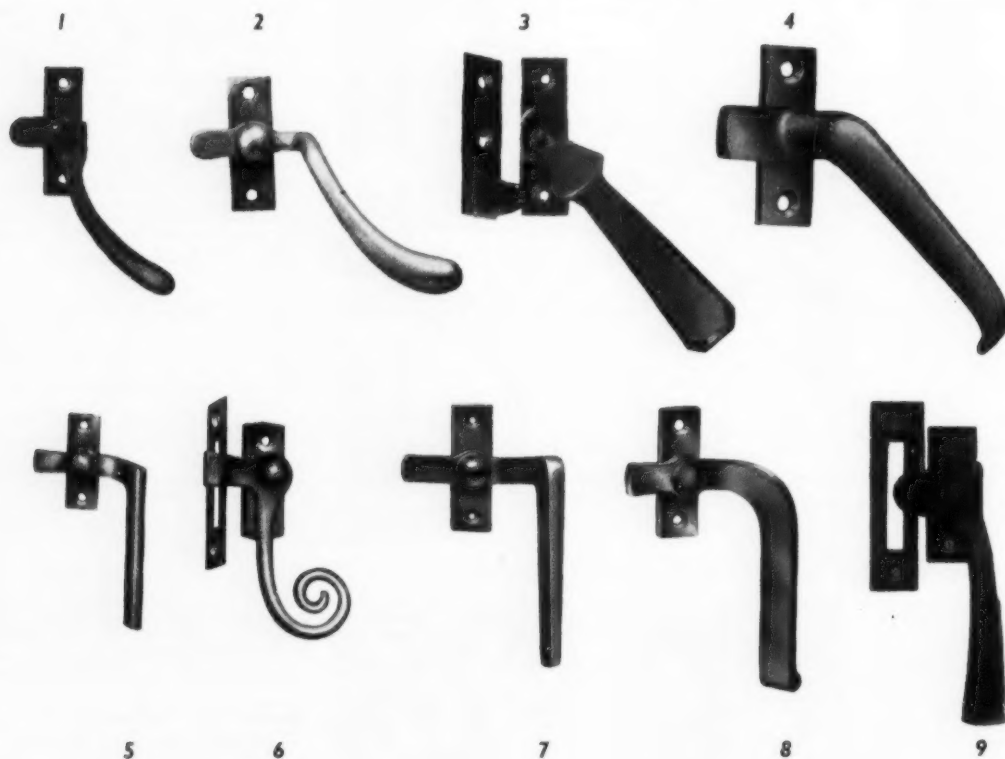
(Continued on page 823)

Friction Pivots



1. Friction sash pivot No. W.1792 by F. P. Waltho Ltd. Once the required tension is obtained the pivot remains at that tension. Friction is obtained by fibre pillars "A" and not metal to metal. No springs to weaken. 2. Sash pivot No. G.391 by Gardiner Sons & Co. Ltd. 3. Friction Pivot No. PA 6980 by Parker, Winder & Achurch Ltd. in Br., B.M.A. and C.P. 4. Friction sash pivot No. PA 6587 by Parker, Winder & Achurch Ltd. in Br., B.M.A. or gunmetal.

Casement Fasteners



1. No. PA 10010 by Parker, Winder & Achurch Ltd. 2. No. R2830 by Laidlaw & Thomson Ltd. 3. No. G.3763 by Gardiner Sons & Co. Ltd. in B.M.A. 4. No. PA 10006 by Parker, Winder & Achurch Ltd. 5. No. PA 10007 by Parker, Winder & Achurch Ltd. 6. No. R27307 by Alfred Goslett & Co. Ltd. 7. No. PA 9873 by Parker, Winder & Achurch Ltd. in B.B.I., Br., B.M.A. & C.P. 8. No. PA 10005 by Parker, Winder & Achurch Ltd. 9. No. PA 6303 by Parker, Winder & Achurch Ltd.

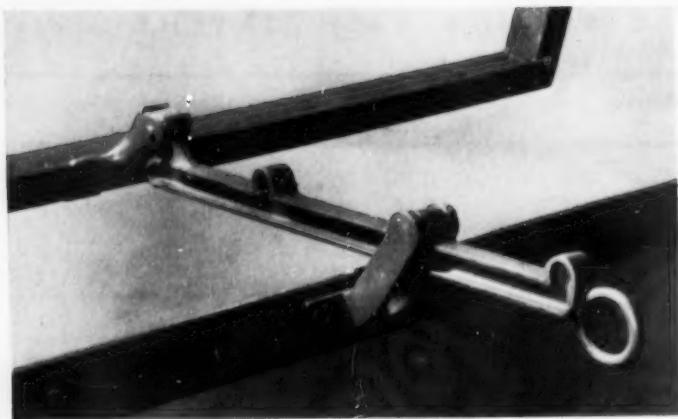
VERTICAL SLIDING SASH CATCHES, etc.

| Supplier | Types in stock | Finishes | Price Range | Remarks |
|---|-------------------------------------|---|---|---|
| ROBERT ADAMS (Victor) LTD. ... | 8 | C.P., Br., B.M.A. | 3/- to 7/- | — |
| G. & S. ALLGOOD ... | Many | All finishes | On application | Specials supplied. |
| BAXENDALE & CO. LTD. ... | 8 | I., Br. | 9d. to 6/6 | Best seller: Bronzed Iron. |
| BROAD & CO. LTD. ... | 5 | Steel, Br., B.M.A. | 1/10 to 9/6 | Best seller: Brass. |
| CAKEBREAD, ROBEY & CO. LTD. | 4 | Br., Bronzed Iron. | 6/- per doz. to 97/6 per doz. | Best seller: No. 1.269. Brass sash stops also popular. Specials supplied. |
| WALTER CASSEY LTD. ... | Many | All finishes | On application | Specials supplied. |
| COMYN CHING & Co. (London) LTD. ... | 12 | B.B., Br., Bz., C.P., B.M.A. | 1/- to 12/6 | Best seller: No. C.2416-B.M.A. New catalogue being prepared. Specials supplied. |
| CLARK, HUNT & CO. LTD. ... | 6 | All finishes | On application | — |
| W. DIBBEN & SONS LTD. ... | a. Fasteners 12 b. Openers (Sets) 2 | Japanned and bronzed Iron, Br. and B.M.A. | a. 9d. to 11/- b. 14/3 to 34/6 | Best seller: No. H.1740. Openers are complete with cord and hardwood handles. |
| DRYAD METAL WORKS LTD. ... | a. 1 | B.B.I., B.M.A., C.P., S.C.P. | 7/6 to 22/- | Best seller: No. C.28. Catalogue available. Specials supplied. |
| B. FINCH & CO. LTD. ... | 10 | Japanned Iron, B.M.A., C.P., Br. | On application | Specials supplied. |
| W. N. FROY & SONS LTD. ... | Many | All finishes | On application | Specials supplied. Catalogue available. |
| GARDINER SONS & CO. LTD. ... | 24 | Bronzed Steel, B.M.A. finish, Br., C.P., Bk. | 10d. to 18/- | Best seller: No. G.3766 Brass. No. G.3837 has double action making it impossible to force with knife or other instrument. Catalogue available. |
| GIBBS & DANDY LTD. ... | 6 | All finishes | 9d. to 12/- | — |
| HENRY HOPE & SONS LTD. ... | Many | All finishes | On application | Specials supplied. Catalogue available. |
| LAIDLAW & THOMSON LTD. ... | 3 | Br., B.M.A. | 5/- to 12/6 | — |
| LEWIS & GRUNDY LTD. ... | Many | All finishes | On application | New catalogue being prepared. Specials supplied. |
| NICHOLLS & CLARKE LTD. ... | Many | All finishes | On application | Specials supplied. |
| NORLOND SERVICE (Builders Merchants) LTD. ... | Many | All finishes | On application | — |
| PARKER, WINDER & ACHURCH LTD. | 21 | Iron, B.B., S.B.B., P.B., B.M.A., C.P. | On application | Best sellers: Nos. P.A.526, 4771, 4773. Catalogue available. Specials supplied. School or Asylum sash lock No. PA.9299 prevents intrusion or unauthorized exit whilst sash is open to give ventilation. |
| H. R. PAUL & SON LTD. ... | Many | All finishes | On application | — |
| JOHN PHILLIPS LTD. ... | Many | Br., B.M.A., C.P. | On application | New catalogue being prepared. |
| PRYKE & PALMER LTD. ... | Many | All finishes | On application | Most designs can be supplied. |
| N. F. RAMSAY & CO. LTD. ... | 14 | Br., B.M.A., C.P., S.C.P., B.B.I., M.I. | 1/- to 35/- | — |
| ALFRED G. ROBERTS LTD. ... | 8 | B.B.I., Br., Bz., Al. | 1/6 to 7/6 | Best seller: No. 482. |
| ROWE BROS. & CO. LTD. ... | 6 | Br., B.M.A. finish, real B.M.A., C.P. | 2/9 to 12/6 | Specials supplied. |
| ROWNSON DREW & CLYDESDALE LTD. ... | 3 | Bronzed Iron, Br., B.M.A. | 6d. to 5/6 | — |
| J. & H. SMITH LTD. ... | 8 | B.M.A., Br., Bz., C.P., dead dipped brass, Bronze varnished Iron, Electro brasses Iron. | 1/- to 8/9 | Best sellers: Spring sliding and "Stowes" patterns. Non-stock patterns obtained to order. Pulleys sash cord weights and balances also in stock. Catalogue being produced. |
| STANDARD RANGE & FOUNDRY LTD. ... | Many | All finishes | On application | Specials supplied. New catalogue being prepared. |
| STEDALL & CO. LTD. ... | Many | All finishes | On application | Specials supplied. Catalogue available. |
| TAYLOR PEARSE & CO. LTD. ... | Many | All finishes | On application | Specials supplied. |
| TEUTEN-DAVIS BENNETT LTD. | 4 | Polished and sanded brass | Fasteners 4/6 to 7/6. Other fittings 15/- to 80/- | Best seller: sanded brass wedge pattern. Meakers opener if well fitted is a valuable item at 27/6 to 33/-. New catalogue being prepared. |
| WALKER & WOOD LTD. ... | Many | All finishes | On application | Best sellers: Fasteners Nos. F.90 and F.97. Sash Lift No. L.272. Specials supplied. Catalogue available. |
| NEVILLE WATTS & CO. LTD. ... | Many | All finishes | On application | — |

PIVOT WINDOWS, STAYS & FASTENERS etc.

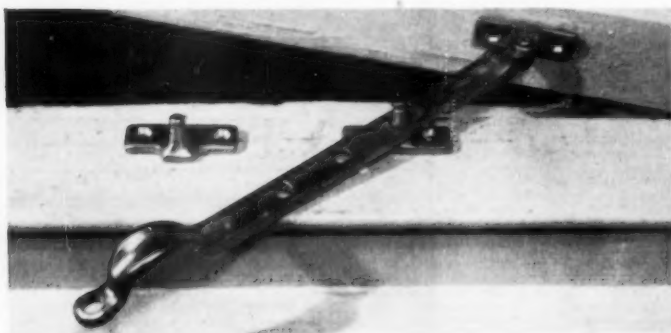
| | | | | |
|--------------------------------|------|-------------------|--------------------|--|
| ROBERT ADAMS (Victor) LTD. ... | 4 | Br., B.M.A., C.P. | 6/- to 9/6 set | — |
| G. & S. ALLGOOD ... | Many | All finishes | On application | Specials supplied. |
| BAXENDALE & CO. LTD. ... | 2 | B.B.I., Br. | 8/6 to 19/6 set | Best seller: B.B.I. Friction type to hold pivot light at any angle is popular. |
| BROAD & CO. LTD. ... | 2 | I., Br. | 1/2 to 6/9 set | Best seller: Iron. |
| CAKEBREAD, ROBEY & CO. LTD. | 4 | B.B., Br. | 13/4 to 120/- doz. | Specials supplied. |
| WALTER CASSEY LTD. ... | Many | All finishes | On application | Specials supplied. |

Continued on page 825



Stays and Fasteners

Cam opener for top hung or horizontally pivoted swing casements. This opener can be supplied to stand up or hang down as required by Henry Hope & Sons Ltd.



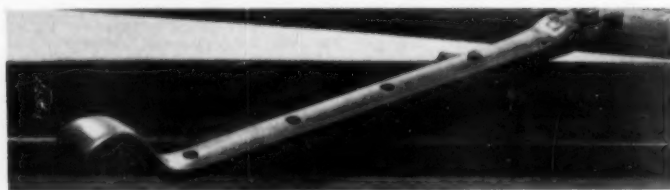
Two-pin casement stay No. LG733 by Lewis & Grundy Ltd.



Casement fastener No. 3394 (Wehag) in A. Al. by Alfred G. Roberts & Co. Ltd.



Patent locking peg casement stay No. LG732 by Lewis & Grundy Ltd.



'Safety' casement stay by F. P. Waltho Ltd. The "L" shaped loop "A" prevents the casement flying outwards. "B" is the locking pin, "C" the wrought steel bar, and "D," the malleable iron bracket and double joint.

Casement peg stay No. 151HS by Crittall Manufacturing Co. Ltd.



Pivot Windows, Stays & Fasteners etc. — continued

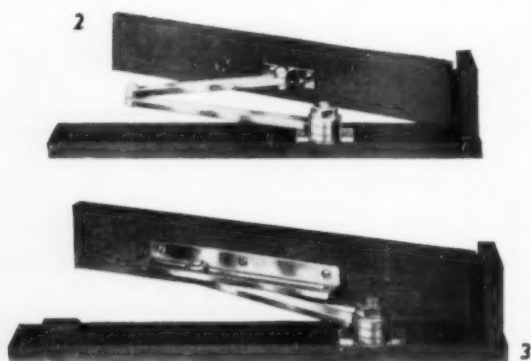
| Supplier | Types in stock | Finishes | Price Range | Remarks |
|---|---|---|------------------|---|
| COMYN CHING & CO. (London) LTD. ... | Many | All finishes | On application | Specials supplied. New catalogue being produced. |
| CLARK, HUNT & CO. LTD. ... | 2 | Br., B.M.A. finish, C.P., Sheradized Iron | On application | — |
| W. DIBBEN & SONS LTD. ... | 5 Pivots Many Stays and Fasteners | I. and Br. | 6d. to 10/9 set | Specials supplied. |
| DRYAD METAL WORKS LTD. ... | 1 | B.B., B.M.A., C.P., S.C.P. | 3/- to 20/- | Specials supplied. Catalogue available. |
| B. FINCH & CO. LTD. ... | Many | Sheradized Steel, B.M.A., Japanned, Br., C.P. | On application | Specials supplied. |
| W. N. FROY & SONS LTD. ... | Many | All finishes | On Application | Specials supplied. Catalogue available. |
| GARDINER SONS & CO. LTD. ... | Many | All finishes | On application | Specials supplied. Catalogue available. |
| GIBBS & DANDY LTD. ... | 4 | Br., B.B.I. | On application | — |
| HENRY HOPE & SONS LTD. ... | Many | All finishes | On application | Specials supplied. Catalogue available. |
| LAIDLAW & THOMSON LTD. ... | 18 | B.B.I., Br., C.P., B.M.A. | 4/6 to 12/6 | — |
| LEWIS & GRUNDY LTD. ... | Many | All finishes | On application | Specials supplied. New catalogue being prepared. |
| NICHOLLS & CLARKE LTD. ... | Many | All finishes | On application | Specials supplied. |
| NORLOND SERVICE (Builders Merchants) LTD. ... | Many | All finishes | On application | — |
| PARKER WINDER & ACHURCH LTD. ... | Many | I., B.B., S.B.B., P.B., B.M.A., C.P. | On application | Best sellers: Nos. P.A.6587, 6588, 6980. Catalogue available. Specials supplied. |
| H. R. PAUL & SON LTD. ... | Many | All finishes | On application | — |
| PRYKE & PALMER LTD. ... | Many | All finishes | On application | Most designs can be supplied. |
| N. F. RAMSAY & CO. LTD. ... | 18 | B.B.I., B.M.A., Br., C.P., S.C.P. | 2/6 to 40/- | — |
| ROWE BROS. & CO. LTD. ... | 3 | B.B.I., Br., B.M.A. | 8d to 28/6 set | — |
| J. & H. SMITH LTD. ... | 6 | Japanned I. Steel & Br., B.M.A., B.B.I., Japanned Steel | 1/- to 25/- | Best sellers: Face fixing types. New catalogue being produced. |
| STANDARD RANGE & FOUNDRY LTD. ... | Many | All finishes | On application | Specials supplied. New catalogue being prepared. |
| STEDALL & CO. LTD. ... | Many | All finishes | On application | Specials supplied. Catalogue available. |
| TAYLOR, PEARSE & CO. LTD. ... | Many | All finishes | On application | Specials supplied. |
| TEUTEN-DAVIS BENNETT LTD. ... | 2 Pivots, Various fasteners | Pivots—B.M.A. finish Fasteners—Br., B.M.A., C.P. | 4/6 to 21/- pair | A special fastener is available for low level windows. Specials supplied. Catalogue being prepared. |
| TOMO TRADING CO. LTD. ... | Many | Bright nickel chrome plate | On application | Best seller: Espagnolette No. 264. Concealed fitting can be supplied. Catalogue available. |
| WALKER & WOOD ... | Many | All finishes | On application | Specials supplied. Catalogue available. |
| F. P. WALTHO LTD. ... | 1 | Br. or gunmetal | On application | Best seller: No. W.1792. |
| NEVILLE WATTS & CO. LTD. ... | Many | All finishes | On application | Specials supplied. |

FANLIGHT FITTINGS

| | | | | |
|-------------------------------------|-----------------------------------|---|---|--|
| ROBERT ADAMS (Victor) LTD. ... | 6 Stays 6 Fasteners | Br., B.M.A., C.P. | Stays 5/- to 12/- per pair Fasteners 2/6 to 10/6 each | Specials supplied. |
| G. & S. ALLGOOD ... | Many | All finishes | On application | Specials supplied. |
| BAXENDALE & CO. LTD. ... | 14 | B.B.I., Br., Gunmetal | 3/- to 104/- each | Best seller: Leggott's system to work with endless cord. |
| BROAD & CO. LTD. ... | 4 | M.I., Br., B.M.A., C.P. | 1/4 to 8/6 | Best seller: B.M.A. |
| CAKEBREAD, ROBEY & CO. LTD. ... | 5 | B.B., Polished Br., C.B. & R. | 20/- to 80/- doz. | Best seller: No. 1,374. Specials supplied. |
| WALTER CASSEY LTD. ... | Many | All finishes | On application | Specials supplied. |
| COMYN CHING & CO. (London) LTD. ... | Many | All finishes | On application | Specials supplied. New catalogue being produced. |
| CLARK, HUNT & CO. LTD. ... | 6 | A.B., Br., Real B.M.A., C.P. | On application | — |
| W. DIBBEN & SONS LTD. ... | 8 Catches 6 Stays 6 Openers | Zinc alloy iron and brass in various finishes | Catches 1/9 to 20/- Stays 8d. to 9/- Openers 5/9 to 112/- | Specials supplied. |
| DOODSON & BAIN LTD. ... | 2 | Rumbled, Toned, B.M.A. | On application | Best seller: No. F.D.13. |
| DRYAD METAL WORKS LTD. ... | 4 | B.B., B.M.A., C.P., S.C.P. | 2/- to 22/6 | Best seller: No. C.26 catch. Catalogue available. Specials supplied. |
| B. FINCH & CO. LTD. ... | 8 | Japanned, B.M.A., C.P., Br. | On application | Best sellers: No. 6444 Brass catch, No. 3807 dead-weight catch. |

Fanlight Fittings — continued

| Supplier | Types in stock | Finishes | Price Range | Remarks |
|---|----------------|--|----------------|---|
| GARDINER SONS & CO. LTD. ... | 9 | Steel, Br., B.M.A. finish, real B.M.A. | 2/- to 50/- | Best seller: No. G.5111 fastener. Catalogue available. Specials supplied. |
| GIBBS & DANDY LTD. ... | 6 | All finishes | 1/3 to 22/- | — |
| ALFRED GOSLETT & CO. LTD. ... | 2 | Br., B.M.A. finish, B.B.I. | 2/6 to 9/- | Best seller: No. R.27392. Specials supplied. |
| HENRY HOPE & SONS LTD. ... | Many | All finishes | On application | Specials supplied. Catalogue available. |
| LAIDLAW & THOMSON LTD. ... | 36 | B.B., Br., B.M.A., C.P., A.A.I. | 1/3 to 15/- | — |
| LEWIS & GRUNDY LTD. ... | Many | All finishes | On application | Specials supplied. New catalogue being prepared. |
| NICHOLLS & CLARKE LTD. ... | Many | All finishes | On application | Specials supplied. |
| NORLOND SERVICE (Builders Merchants) LTD. | Many | All finishes | On application | — |
| PARKER, WINDER & ACHURCH LTD. | Many | I., B.B., S.B.B., P.B., B.M.A., C.P. | On application | Best sellers: P.A.1580 and 1600. Specials supplied. Catalogue available. |
| H. R. PAUL & SON LTD. ... | Many | All finishes | On application | — |
| JOHN PHILLIPS LTD. ... | Many | Br., B.M.A., C.P. | On application | New catalogue being prepared. |
| PRYKE & PALMER LTD. ... | Many | All finishes | On application | Most types can be supplied. |
| N. F. RAMSAY & CO. LTD. ... | 20 | Bz., B.M.A., B.B.I. | 2/- to 30/- | — |
| ALFRED G. ROBERTS LTD. ... | 10 | All finishes | 4/6 to 15/- | Specials supplied. |
| ROWE BROS. & CO. LTD. ... | 6 | B.B., Br., B.M.A., C.P. | 1/6 to 16/6 | Best seller: No. 5933. Cord operated catches can be supplied. |
| ROWNSON, DREW & CLYDESDALE LTD. | 3 | A.B.I., Br. | 2/- to 6/- | Other finishes can be supplied. |
| J. & H. SMITH LTD. ... | 15 | Al., B.B.I., Japanned Steel, B.M.A., Br., Bz., C.P., M.I., C.B. & R. | 1/6 to 35/- | Best sellers: No. 24 B.B.I. deadweight catch and "Leggotts" system openers. Catalogue now being produced. |
| STANDARD RANGE & FOUNDRY LTD. | Many | All finishes | On application | Specials supplied. New catalogue being prepared. |
| STEDALL & CO. LTD. ... | Many | All finishes | On application | Specials supplied. Catalogue available. |
| TAYLOR, PEARSE & CO. LTD. ... | Many | All finishes | On application | Specials supplied. |
| TEUTEN-DAVIS BENNETT LTD. | Many | I., Br., B.M.A. | 8/- to 80/- | Best sellers: Leggotts openers and Allways openers. New catalogue being prepared. |
| TOMO TRADING CO. LTD. ... | Many | Matt nickel | On application | Best sellers: Nos. 331 and 333. Specials supplied. Catalogue available. |
| WALKER & WOOD ... | Many | All finishes | On application | Best sellers: Fanlight catch No. C193. Notched stay No. S.403. Specials supplied. Catalogue available. |
| NEVILLE WATTS & CO. LTD. ... | Many | All finishes | On application | Specials supplied. |

Friction Stays

- 1 The "Medro" fanlight stay No. PA 9670 by Parker, Winder & Achurch Ltd.
- 2 Machine made friction stay No. R.3642 by Laidlaw & Thomson Ltd.
- 3 Friction stay No. PA 10008 by Parker, Winder & Achurch Ltd.
- 4 Friction stay No. PA 10011 by Parker, Winder & Achurch Ltd.

ROLLER SASH FITTINGS

| Supplier | Types in stock | Finishes | Price Range | Remarks |
|---|---------------------|--------------------------------------|-----------------------------|---|
| ROBERT ADAMS (VICTOR) LTD. | Spring sash balance | Rustless steel | 50/- per pair | The spring sash balance is adjustable and is for sashes weighing up to 30 lb. |
| G. & S. ALLGOOD | — | — | — | Can be supplied on application. |
| BAXENDALE & CO. LTD. | 2 | B.B.I., Brass | 9d to 3/- | Best seller: Black. Stocked in various widths. |
| BROAD & CO. LTD. | 3 | M.I., Br. | 6d to 1/- | Best seller: M.I. |
| CAKEBREAD, ROBEY & CO. LTD. | 1 | Japanned | 5/- per doz to 10/- per doz | Also stock sash pivots, screws and lifts. |
| COMYN CHING & CO. (London) LTD. | 4 | Iron and Brass | 1/- to 5/6 | New catalogue being produced |
| CLARK, HUNT & CO. LTD. | 2 | I. and Br., various finishes | On application | — |
| B. FINCH & CO. LTD. | 2 | I. and Br. | On application | — |
| W. N. FROY & SONS LTD. | — | — | — | Can be supplied on application. |
| GARDINER SONS & CO. LTD. | 6 | I. and Br. | 7d to 51/6 | Best sellers: G4959 sash balance and G4204 axle pulley. Catalogue available. |
| GIBBS & DANDY LTD. | 2 | B.B.I., Br. | On application | — |
| HENRY HOPE & SONS LTD. | Many | All finishes | On application | Catalogue available |
| LAIDLAW & THOMSON | 24 | B.B., Br. | 9d to 15/- | — |
| LEWIS & GRUNDY | Many | All finishes | On application | New catalogue being prepared |
| NICHOLLS & CLARKE LTD. | Many | All finishes | On application | — |
| NORLOND SERVICE (Builders Merchants) LTD. | Many | All finishes | On application | — |
| PARKER, WINDER & ACHURCH LTD. | 2 | I., B.B., S.B.B., P.B., B.M.A., C.P. | On application | Catalogue available |
| H.R. PAUL & SON LTD. | — | — | — | Can be supplied on application. |
| PRYKE & PALMER LTD. | — | — | — | Can be supplied on application |
| N. F. RAMSAY & CO. LTD. | 8 | B.M.A., B.B.I., Br., C.P., S.C.P. | 3/6 to 20/- | — |
| ALFRED G. ROBERTS & CO. LTD. | 4 | All finishes | 1/6 to 5/6 | — |
| ROWE BROS. & CO. LTD. | 2 | B.B.I. or Br. | 5d to 2/6 | Recommend Henderson's Sliding Sash fittings |
| J. & H. SMITH LTD. | Many | Most finishes | On application | New catalogue in course of preparation |
| STANDARD RANGE & FOUNDRY LTD. | — | — | — | Can be supplied on application. Catalogue being prepared |
| STEDALL & CO. LTD. | Many | All finishes | On application | Catalogue available |
| TAYLOR PEARSE & CO. LTD. | — | — | — | Can be supplied on application |
| TEUTEN-DAVIS BENNETT LTD. | 1 | B.B.I. | 9d to 4/- | There are various sizes of this fitting. New catalogue being prepared. |
| WALKER & WOOD LTD. | All sizes | Br., I. | On application | Catalogue available |
| NEVILLE WATTS & CO. LTD. | Many | All finishes | On application | — |

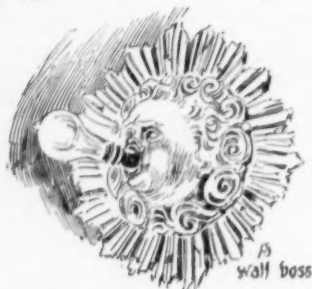
Catches

Fanlight catch No. B6444 in Br., B.M.A. & C.P. by Teuten-Davis Bennett Ltd.

Sash Fastener No. S421 in Br., B.M.A. and C.P. by Teuten-Davis Bennett Ltd.

Spring catch for projected windows by Crittall Manufacturing Co. Ltd.





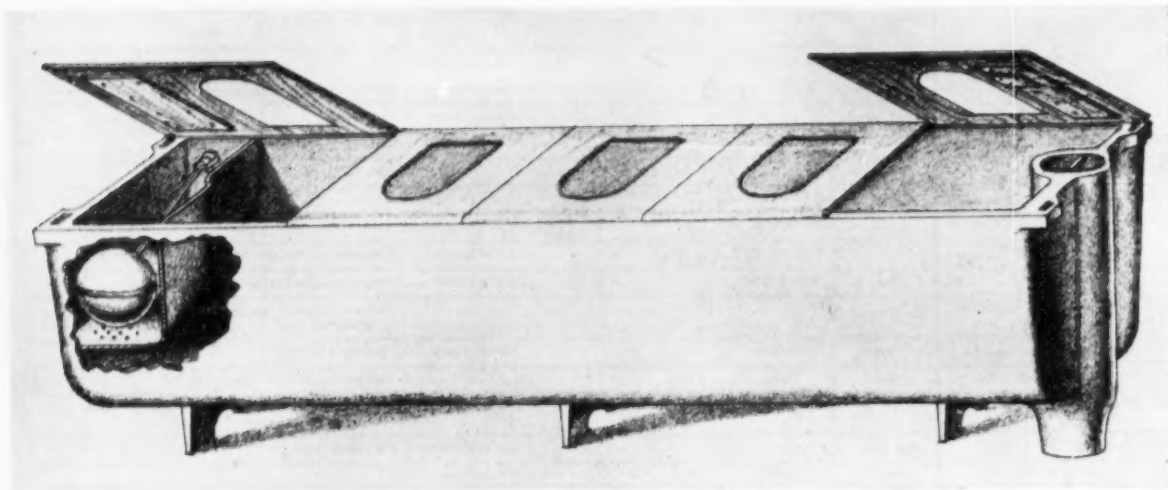
MOSAICS

This being the end of the Centenary Year of the *Building News*, an attempt has been made to suggest what "Mosaics" might have been like if they had been a feature of the paper in the last century.



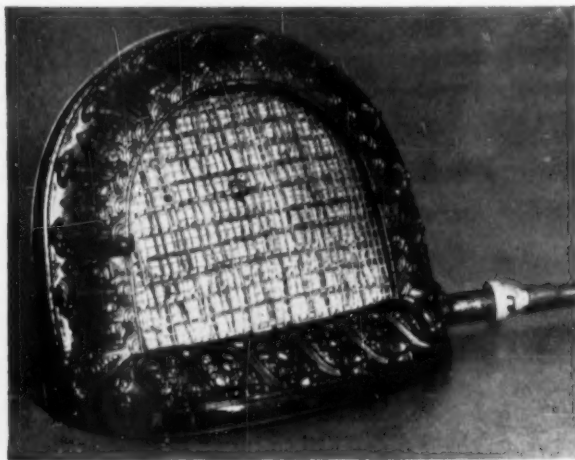
LIGHT DIFFUSION

These two early wall-fittings arouse nostalgia for the days when slogans like "Fitness for Purpose" had not been invented to plague us. Imagine the pleasure of popping the lamps with a coup de bouteille during a rowdy party. Would make a useful present for an architect designing a modern public house.



SANITATION

Honi soit qui mal y pense. This sociable fitting is Shank's Patent Trough Closet in a range for five persons—an appropriate Christmas present for quintuplets. "It may be extended indefinitely for any number of persons"—horrifying thought! It has one slight drawback if you have not drawn back already. If the end man chooses to roll up a newspaper, light it and send it floating downstream, there is no defence from this form of attack a tergo. This may be one of the reasons it is no longer popular. (From Messrs. Shank's Catalogue of 1886).



SPACE HEATING

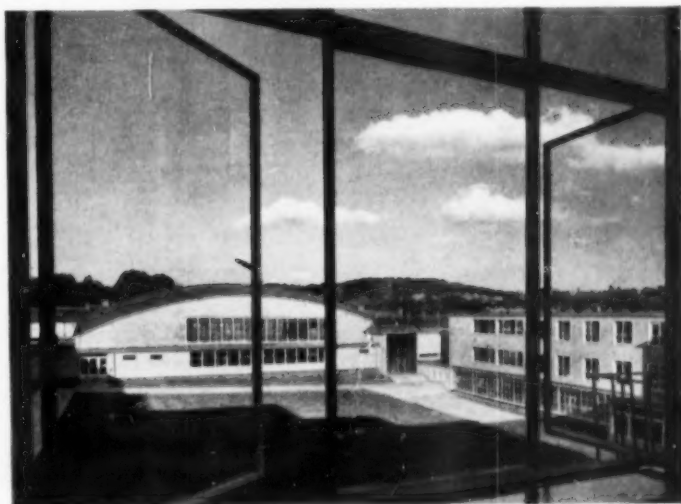
The photograph shows the first gasfire ever to be produced commercially, and it is at present in the possession of Mr. Harry Wilson, great grandson of the Mr. Charles Wilson who, in the middle 80's, pioneered so many developments in the use of coal gas as a director of Messrs. Wilsons & Mathiesons, Ltd., of Leeds, whose centenary was recently celebrated.

In 1878 Mr. Charles Wilson was approached by a member of the Leeds Schools Board and was asked if he would oblige by designing and supplying a form of double grill, for attachment to a "Wilson" Kitchen which was being used for cookery demonstrations.

This was successfully accomplished, to the satisfaction of all, but in the process of development Mr. Charles Wilson was enthused with the idea of using such heaters for space-heating and therefore developed them further. The result being the fire illustrated.

The very first customer for these fires was the former Caledonian Railway Company and one or more of these fires was fitted in each of their station waiting-rooms, and it was from this that the idea of space-heating by gas spread very rapidly.

This actual fire consists of a one-piece cast-iron front frame, finished in black; the back and underside are of heavy gauge steel sheet in one piece, secured by only three bolts. The firebrick is of similar material to those used to-day, but has only a convex smooth surface to the front. The "radiants" consist of two sections of woven wire, one behind the other. The wire to the front is of light gauge and about 1/2 in mesh and immediately behind that is a section of heavier gauge and about 1/4 in mesh. The burner is made up of wrought iron tube curved to suit the back brick with seven drilled holes on the top side, and the injector is of brass with a tube-end for rubber.



HOPE'S WINDOWS

*have been fitted throughout
the first comprehensive school
for L.C.C. at*

KIDBROOKE ELTHAM

Slater, Uren & Pike, Chartered Architects

HENRY HOPE & SONS LTD.

Smethwick, Birmingham & 17 Berners St., London, W.1



*Photo by courtesy of
Ford Motor Company Ltd.*

They chose WOOD floors

- ★ A good hardwood floor stands up to a lifetime of hard wear.
- ★ It is quiet, warm and comfortable underfoot.
- ★ It is a pleasure to look at.
- ★ It can be cheaply and easily maintained in perfect condition.
- ★ It has unique qualities which make it especially suitable for Motor Showrooms.

There's nothing like **WOOD**

CURRENT MEASURED RATES (LONDON)

These apply to new work of normal character and some size. These rates are for time and materials only, and carry 10 per cent in excess, so the appropriate essential on-costs should be added. The basis cost of material used in the calculation of these prices is taken from the foregoing tables which carried up to December, 1954.

[COPYRIGHT]

ESSENTIAL ON-COSTS

| | |
|--|---------------------------|
| Fees payable to L.C.C. for District Surveyor: | |
| For new buildings of ordinary construction exceeding 5,000 cubic feet, for every 1,000 feet or part of same up to 1,000,000 cubic feet 1/6, together with an additional sum of £1/10/- | £1/10/- at + 1/6 |
| After which allow per 1,000 do. | at + 9d. |
| For alterations and additions: | |
| When £100 the sum of £2/10/-, plus 12/6 for every £100 or part of same, up to £1,000 | £2/10/- at + 12/6 per 100 |
| When over £1,000 the sum of £8/2/6, and for every £100 or part of same beyond 3/- | £8/2/6 at + 3/- per 100 |
| Public buildings: Fees as above but plus 50%. | + 50% |
| Fees in respect of means of escape in case of fire are 1/5th of the above or £2 if greater or in the case of a one-storey building £1 | 1/5th |
| Steel framed or r.c. buildings double | + 2 |

| | |
|--|---------|
| Allowance to cover National Insurances, Holidays with Pay and Public Holidays, Welfare, Third Party Risk, Travelling and Guaranteed Week is made in the rates attached to the items. | |
| Allow for Fire Insurance do. | 1/4% |
| Allow for Water for use on the works and apparatus do. | 6/6% |
| Allow for boarding, or similar licences in City of London say £10 Do. under Borough Councils per ex month. | say 2/6 |
| Allow for Office, Fire, Attendance on C. or W., etc., p. week say £1 | |

| | | | | | |
|--|--------|--------|---------|---------|---------|
| Supervision, etc., assessment Contract value | £4,000 | £6,000 | £12,000 | £24,000 | £50,000 |
| Cost of admin. | 6% | 5% | 5% | 4 1/2% | 4 1/2% |
| Agent or foreman (each) | 5% | 4 1/2% | 3 1/2% | 2 1/2% | 1 1/2% |
| Timekeeper or Watchman (each) | 2 1/2% | 2 1/2% | 1 1/2% | 1% | 1/2% |

| SPOT ITEMS AND DEMOLITION, ETC. | Per foot run |
|---|--------------|
| Hoarding erected and removed | 17/- |
| Planked gangway with handrail, etc. do. | 9/- |
| Proper gantry do. | 68/- |
| Sleeper roadways | 14/6 |
| Needling, strutting and shoring including all labours Per foot cube and use and waste in erection and removal | 17/- |
| Breaking up and removing hard masses of concrete Per yard cube or brickwork, etc., found in foundations | 58/- |

| ALTERATION-DEMOLITION— | 1 | 1 1/2 | 2 |
|--|---------|-------|---------|
| Brick Brick Brick Per yard | | | |
| Cutting out cement concrete or Per foot super Cube brickwork in small quantities | 1/3 | 2/4 | 3/2 |
| Do. if either in very small quantities or reinforced | 2/1 | 3/8 | 5/3 1/2 |
| Debris into baskets and removed from inside to outside of bldg. | 3 1/2d. | 7d. | 8 1/2d. |
| | 12/2 | | |

| SCAFFOLDING | Period— |
|-----------------------------|---------------------------|
| Per Yard superficial | 1 month 3 months 5 months |
| Putlog type—4' 6" lift | 4/10 6/6 8/2 |
| Do. —6' 0" do. | 3/4 4/8 6/- |
| Independent type—4' 6" lift | 6/2 8/9 11/3 |
| Do. —6' 0" do. | 4/2 5/9 7/5 |

| EXCAVATION | Common | Loam | Stiff | Hard |
|--|--------|------|---------|------|
| Per Yard Cube. By hand Soil and Clay | | | | |
| Reduce levels | 4/11 | 5/5 | 6/9 | 8/2 |
| Surface trench | 8/5 | 10/3 | 13/9 | 14/5 |
| Barrow 25 yds. | 2/6 | 3/4 | 3/9 | 2/6 |
| Fill and ram | 4/6 | 5/- | 5/5 | 5/3 |
| Load and cart | 14/- | 14/5 | 14/11 | 14/2 |
| By machine | | | | |
| Bulk dig and load | 3/4 | 3/9 | 4/2 | 4/2 |
| Lorry standing while loading and 5 miles travel to tip | 5/6 | 6/1 | 7/4 | 6/9 |
| 1 extra mile to tip | 7d. | 8d. | 8 1/2d. | 8d. |

| CONCRETE | 1 1/2 in. Ballast Aggregate | Per yard cube |
|--|-----------------------------|---------------|
| 1 : 3 : 6 Cement concrete in foundations | | 69/- |
| Do. around grillages | | 72/- |

| REINFORCED CONCRETE | |
|--|----------------|
| 1 : 2 : 4—1 in. concrete, worked around reinforcement, between formwork in the following (at various levels):— | |
| Foundations and surface beds | 77/- Per cubic |
| Walls, 12 in. thick or more | 84/- Yard |

| Sectional inches | Lintols and Columns and beams | casings | Braces and projections |
|-------------------------------------|-------------------------------|---------|------------------------|
| Up to 36 | 4/2 | 4/5 | 4/7 Per cubic ft. |
| 36 to 72 | 3/11 | 4/3 | 4/- do. |
| 72 to 144 | 3/9 | 3/10 | 4/- do. |
| over 144 | 3/7 | 3/9 | 3/11 do. |
| Walls 6 in thick | | | 15/4 Per super yd. |
| Do. 9 in thick | | | 22/3 do. |
| Suspended floors average 6 in thick | | | 16/2 do. |

| REINFORCING RODS (round) bent and placed— | | | | |
|---|--------|--------|------|----------|
| Per cwt | 1/2 in | 3/4 in | 1 in | 1 1/4 in |
| In floors and beams | 72/- | 67/- | 62/- | 56/- |
| In walls | 78/- | 72/- | 66/- | 59/6 |
| In columns | 85/- | 77/- | 71/- | 64/- |

| FORMWORK and Supports (4 times use)— | | | |
|--------------------------------------|-------|---------|-------------------------|
| Floor soffits | Beams | Walls | Columns |
| 17/7 per Yard | 2/5 | 2/1 1/2 | 2/1 1/2 per super foot. |

BRICKWORK

| | |
|--|------------------------|
| BRICKWORK per YARD superficial reduced to ONE BRICK in thickness (scaffold to add)— | In 1 : 3 cement mortar |
| Flettons or other similar at 113/- per 1,000 | 37/4 |
| Mild Stocks or do., at 221/6 per 1,000 | 50/3 |
| Second Stocks or do., at 256/6 per 1,000 | 54/- |
| Southwater engineering or similar bricks, at 370/- per 1,000 | 71/- |
| Blue Staffordshire wire cut at 462/- per 1,000 | 80/10 |
| Deduct if 1 : 1 : 6 Cement-Lime mortar is used in lieu of 1 : 3 Portland Cement mortar | 2d. |
| Add if brickwork commences above ground level | 3/9 |
| Do. if in backing to masonry including cutting and waste for bonding | 2/10 |
| Do. If circular-on-plan | 6/9 |
| Do. If in underpinning | 6/9 |

BRICKWORK IN THICKNESS NOT REDUCED—

| Per yard superficial | Brick, on edge | Half-Brick walls | 1 Brick 11" finished fair both sides | Hollow with 2" cavity and G.I. ties |
|--|----------------|------------------|--------------------------------------|-------------------------------------|
| In Flettons or similar | 16/- | 20/6 | 37/9 | 43/3 |
| In second stocks or do. | 21/7 | 28/7 | 53/5 | 59/3 |
| Add: for pointing as work proceeds, per side | 1/6 | 1/8 | 1/6 | 1/6 |
| Thickening to old walls, including cutting, toothing and bonding to same an average total thickness of 1/2 brick | 53/- | | 62/8 | Per yard super. |
| Do. all as last but an average total thickness of 1 1/2 bricks | 69/- | | 90/3 | do. |

WALLS BUILT IN SUPERIOR BRICKS—

| | |
|---|----------------------|
| In 1 : 3 Cement mortar, fair faced and pointed on both sides as the work proceeds:— | Half-Brick One Brick |
| In first quality Stocks at 272/- | 33/10 60/2 Per yard |
| In red facings at 290/- | 34/- 60/7 super. |
| In bluepressed facings at 509/6 | 49/3 91/4 do. |

GENERAL AND SUNDRY—

| | |
|--|--|
| Cut tooth and bond new brickwork to old | 4/3 per ft |
| Damp proof course, double slate, horizontal | 3/- super |
| Do., as last, but vertical | 3/10 do. |
| Do., bitumen, Hessian base, do. | 1/8 do. |
| Frames, bed and point in cement mortar, one side 4d. per ft. run | |
| Window board of 6" x 6" x 1/2" rounded on edge | |
| quarry tiles, bedded, pointed, cut and fitted | 3/- do. |
| Terra cotta air bricks built in and pointed, including flue | 9" x 6" 9" x 9" 9/- each |
| Chimney pots, plain red, set and flauched in cement mortar | 1ft high 13/- 2ft high 19/- each |
| Metal windows, assembled, hoisted and fixed, lugs cut and pinned | Up to 5ft 5ft to 10ft 10ft to 15ft 15ft to 20ft 20ft to 25ft 25ft to 30ft 30ft to 35ft 35ft to 40ft 40ft to 45ft 45ft to 50ft 50ft to 55ft 55ft to 60ft 60ft to 65ft 65ft to 70ft 70ft to 75ft 75ft to 80ft 80ft to 85ft 85ft to 90ft 90ft to 95ft 95ft to 100ft |
| one side in cement mortar | 10/9 10ft to 20ft 20ft to 40ft 40ft to 60ft 60ft to 80ft 80ft to 100ft 100ft to 120ft 120ft to 140ft 140ft to 160ft 160ft to 180ft 180ft to 200ft 200ft to 220ft 220ft to 240ft 240ft to 260ft 260ft to 280ft 280ft to 300ft 300ft to 320ft 320ft to 340ft 340ft to 360ft 360ft to 380ft 380ft to 400ft 400ft to 420ft 420ft to 440ft 440ft to 460ft 460ft to 480ft 480ft to 500ft 500ft to 520ft 520ft to 540ft 540ft to 560ft 560ft to 580ft 580ft to 600ft 600ft to 620ft 620ft to 640ft 640ft to 660ft 660ft to 680ft 680ft to 700ft 700ft to 720ft 720ft to 740ft 740ft to 760ft 760ft to 780ft 780ft to 800ft 800ft to 820ft 820ft to 840ft 840ft to 860ft 860ft to 880ft 880ft to 900ft 900ft to 920ft 920ft to 940ft 940ft to 960ft 960ft to 980ft 980ft to 1000ft |
| Leaving holes through walls for pipes and afterwards making good | Small pipes 3d. per in in depth 10d. do. Large pipes 6d. per in in depth 1 1/2 per in in depth, each |
| Cutting do., and afterwards do. | 10d. do. |
| Cut mortices in brickwork or concrete for bolts or dowels and run in with cement grout | 1 1/2 per in in depth, each |
| Holdfasts of stout hoop iron bent holed and screwed to frame and built in | 1/2 each |

MEASURED RATES—Continued

BRICKWORK—Continued

FACING—

Extra only over common brickwork (113/- per 1,000) for facing with superior bricks in Flemish bond and pointing as the work proceeds.

| | | |
|-------------------------|------|-----------------|
| Rustic Flettons (138/-) | 3/9 | per yard super. |
| White (200/-) | 8/4½ | do. |
| First Stocks (272/-) | 13/5 | do. |
| Reds (290/-) | 14/8 | do. |
| Blue pressed (509/6) | 36/8 | do. |

If built in English bond, Add 10% to above

If do. half-brick stretcher bond, Less 25% off above.

COPING—

All labour and material in forming brick-on-edge coping with two courses of roofing tiles under and cement weather fillets on both sides, built in cement and pointed as the work proceeds.

| Per foot run | 9" thick | 14" thick |
|----------------------------|----------|--------------|
| In picked Flettons | 6/1 | 8/2 |
| In first quality Stocks | 7/5 | 10/10 |
| In red facings | 7/3 | 10/8 |
| Plumbing angles | 2d. | per foot run |
| Fair cutting | 10½d. | do. |
| Fair raking cutting | 1/5 | do. |
| Fair circular cutting | 1/5 | do. |
| Fair squint or birds-mouth | 1/9 | do. |

ARCHES

| | | |
|--|------------|------|
| Extra over Fletton brickwork for forming window head with red facing bricks set on end and with 4½" soffits and pointing | foot run | 3/6 |
| Do. for rubbed and gauged flat arch in red rubbers set in putty with fine joints | foot super | 17/6 |

PARTITIONS

| | Per yard super— |
|---|------------------|
| (over 100 Yards) | 2in 2½in 3in |
| Concrete slab partitions in cement mortar | 9/9 11/- 13/10 |
| Hollow clay do. | 11/10 12/9 13/11 |
| Cutting and bonding at angles, intersections and ends | 4½d. foot run. |

PAVING

| | | | | |
|--|-----|-----|------|------------|
| Grano trowelled gauged 5 : 2 | 8/- | 9/- | 10/- | yard super |
| 1 x 5in skirting, square top and cove bottom | | | 2/8 | foot run |
| 1/2 in x 6in red quarry tile paving | .. | .. | 26/- | yard super |
| 1/2 in x 6in do. skirting | .. | .. | 1/9 | foot run |
| Jointless flooring, 1/2 in thick | .. | .. | 20/- | yard super |

ASPHALTE (normal conditions and fair quantity)

| | | | |
|---|------|---------|---------|
| ½in pitch mastic floor in one coat on felt underlay on prepared concrete base | B.S. | 1450/48 | 1375/47 |
|---|------|---------|---------|

| | Black | Brown | Red |
|----------------|-------|----------------|-----------------------------|
| Per yard super | 12/6 | 13/2 | 15/- |
| | Unit | Mastic B.S.988 | Natural Rock B.S.S. 1162/44 |

| | | | |
|---|------------|------|------|
| ½in in two thicknesses on felt underlay on prepared concrete base | yard super | 17/- | 22/6 |
| Do. in narrow widths | foot super | 2/6 | 3/6 |

| | | | |
|--|----------|------|------|
| ½in skirting 6in high, angle fillet at bottom splayed and turned in at top | foot run | 3/- | 3/6 |
| External angles | each | 6d. | 6d. |
| Internal ditto | each | 10d. | 10d. |

Tanking or Damp Course

| | | | |
|-------------------------------|------------|------|------|
| Vertical in two thicknesses | yard super | 22/6 | 32/- |
| ½in horizontal ditto | yard super | 15/- | 23/6 |
| Vertical in three thicknesses | yard super | 32/- | 39/- |
| 1½in horizontal ditto | yard super | 21/- | 30/6 |

Labour rounded external angle

| | | |
|--------------|-----|-----|
| per foot run | 6d. | 6d. |
|--------------|-----|-----|

| | | | |
|-----------------------------|--------------|------|------|
| Ditto internal angle fillet | per foot run | 10d. | 11d. |
|-----------------------------|--------------|------|------|

| | | | |
|--------------------|--------------|-----|-----|
| Ditto double ditto | per foot run | 1/8 | 1/8 |
|--------------------|--------------|-----|-----|

| | | | |
|------------------------|------|-----|-----|
| Collars to small pipes | each | 3/6 | 4/- |
|------------------------|------|-----|-----|

| | | | |
|----------------------|------|-----|-----|
| Ditto to large pipes | each | 6/6 | 8/- |
|----------------------|------|-----|-----|

DRAINAGE

| | | |
|-----------------|-----------------|-----|
| Per lineal yard | 1 foot in depth | 4/2 |
|-----------------|-----------------|-----|

| | | | |
|--|---|-----|-----|
| Excavate trench, and plank and strut to sides, consolidate bottom to fall, return fill and ram earth after drain is laid, and load and remove surplus. | 2 | do. | 7/2 |
|--|---|-----|-----|

| | | | |
|------------------------------------|---|-----|------|
| In ordinary ground—moderately firm | 3 | do. | 17/7 |
|------------------------------------|---|-----|------|

| | | | |
|--|---|-----|------|
| | 4 | do. | 23/4 |
|--|---|-----|------|

| | | | |
|--|---|-----|------|
| | 5 | do. | 29/1 |
|--|---|-----|------|

| | | | |
|--|---|-----|-------|
| | 6 | do. | 36/11 |
|--|---|-----|-------|

| | | | |
|--|---|-----|------|
| | 7 | do. | 45/- |
|--|---|-----|------|

| | | | |
|--|---|-----|------|
| | 8 | do. | 57/- |
|--|---|-----|------|

| | | | |
|--|---|-----|------|
| | 9 | do. | 66/1 |
|--|---|-----|------|

| | | | |
|--|----|-----|------|
| | 10 | do. | 73/4 |
|--|----|-----|------|

| | | | |
|--|----|-----|------|
| | 11 | do. | 91/3 |
|--|----|-----|------|

| | | | |
|--|----|-----|-------|
| | 12 | do. | 102/6 |
|--|----|-----|-------|

| | | | |
|--------------------------|--------------|-----------|-----------|
| Portland cement (1:6) | Per yard run | | |
| concrete bed under drain | 4in | 6in | 9in |
| pipes and benching up on | 18in wide | 20in wide | 23in wide |
| both sides—6in thick .. | 5/7 | 6/6 | 8/1½ |

SALT GLAZED SANITARY DRAIN PIPES

and lay and joint with Yarn and Cement Mortar in trench.

| | Quality | Quantity | Per foot run |
|-------------------------------------|-----------------|--------------------------|---------------|
| "Best" | 2 Tons or more | 4in 6in 9in | 2/6 3/7 6/- |
| | over 100 pieces | | 2/9 4/1 6/9 |
| | under 100 ditto | | 2/10 4/3 7/3 |
| "Best Tested" | 2 Tons or more | | 3/1 4/5 7/7 |
| | over 100 pieces | | 3/7 5/4 9/- |
| | under 100 ditto | | 3/10 5/7 9/6 |
| "British Standard" | 2 Tons or more | | 2/8 3/11 6/6 |
| | over 100 pieces | | 3/1 4/5 7/7 |
| | under 100 ditto | | 3/3 4/8 7/11 |
| "British Standard Tested" | 2 Tons or more | | 3/3 4/9 8/- |
| | over 100 pieces | | 4/1 6/- 10/5 |
| | under 100 ditto | | 4/2 6/3 10/10 |
| Extra for bends | "Best" | Contained in 2 Ton lots. | 3/10 5/7 15/8 |
| Extra for junction | "Best" | | |
| —4in on 4in, 6in on 6in—9in on 9in. | ditto | | 6/- 8/9 25/6 |

IRON DRAIN PIPES—

| | | |
|---|--------------|------------|
| Heavy cast iron socketed and laying and jointing in molten lead— | Per foot run | |
| In main runs | 4in 6in | 11/- 14/9 |
| In branches | | 11/10 16/- |
| | each | |
| Extra over last for bends and extra joint | | 33/6 56/- |
| Do. on do. for junctions and extra joint | | 45/- 78/- |
| Cast iron gully with 10½in inlet and 4in outlet, composed of hooper and trap, and 9in extension piece and 10½in grating, and jointing all together, and jointing to drain and surrounding in concrete | | 130/- — |
| Do. rain water shoe with vertical inlet and inspection cover, and joint up and embed | | 65/- 114/- |

MANHOLE SUNDRIES—

| | | |
|--|---------|------------|
| Salt glazed straight half-round main channels | 4in 6in | 5/- 7/- |
| Do. curved | | 10/6 15/- |
| Do. three-quarter section splayed channel bends (Earrons or similar) | | 13/9 19/10 |
| Heavy manhole steps galvanized | | 9/3 — |
| Fix only manhole covers | | 10/- — |
| 4in Mica flap, brass faced, f.a.i. valves and fix with molten lead joint | | 34/- — |

ROOFER

CORRUGATED ASBESTOS SHEETS

| | | |
|--|-------|------------|
| P.C. 6/8½ per super yard, including side and end laps and fixing to wood | 134/- | per square |
| Eaves filler pieces | 1/9 | foot run |
| Adjustable ridge | 3/4 | do. |
| Barge boards | 2/8 | do. |

| | | |
|---|-------|-----|
| Plain roofing tiles, machine made, sand faced, 4in gauge nailed every 4th course with 1½in galvanized nails, to battens (measured separately) | 226/- | do. |
|---|-------|-----|

| | | |
|--|------|-----|
| Extra over last for top edge or abutment cutting | 1/1½ | do. |
|--|------|-----|

| | | |
|--------------------------------|------|-----|
| Do. for double course at eaves | 2/0½ | do. |
|--------------------------------|------|-----|

| | | |
|---|-----|-----|
| Do. for verges, undercloak, bed and point | 2/9 | do. |
|---|-----|-----|

| | | |
|--|------|-----|
| Do. Valley tiles including cutting and waste on both sides | 10/- | do. |
|--|------|-----|

| | | |
|---------------------------------------|------|-----|
| Do. Bonnet hips and do. bed and point | 10/6 | do. |
|---------------------------------------|------|-----|

| | | |
|------------------------------------|-----|-----|
| Half-round ridge and bed and point | 2/9 | do. |
|------------------------------------|-----|-----|

| | | |
|----------------|-----|-------|
| Fixing soakers | 1/4 | dozen |
|----------------|-----|-------|

Bituminous felt roofing in two layers, laid breaking joint and bedded with hot mastic and finished with fine dry grit

| | | |
|---------------------------|------|------|
| Do. but in one layer only | 10/6 | yard |
|---------------------------|------|------|

| | | |
|--|-----|--------|
| | 7/9 | super. |
|--|-----|--------|

WELSH SLATING—

| | | |
|-------------------------------|------------|--|
| 16" x 10" 18" x 10" 20" x 10" | Per square | |
|-------------------------------|------------|--|

| | | | |
|-------------------------------------|-------|-------|-------|
| 3in lap, 2 zinc nails to each slate | 293/- | 327/- | 364/- |
|-------------------------------------|-------|-------|-------|

Additional labours

| | | | |
|--|-----|-----|------|
| At tops, verges and abutments—straight | 1/6 | 1/8 | 1/10 |
|--|-----|-----|------|

| | | | |
|-------------|-----|-----|-----|
| Do. —raking | 2/3 | 2/6 | 2/9 |
|-------------|-----|-----|-----|

| | | | |
|---------------------------------|-----|-----|-----|
| At hips and valleys (each side) | 2/3 | 2/6 | 2/9 |
|---------------------------------|-----|-----|-----|

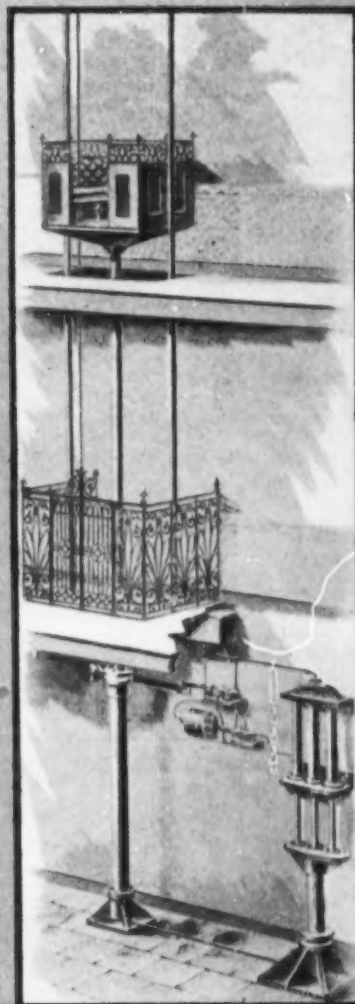
| | | | |
|-------------------------|-----|-----|-----|
| At eaves, double course | 3/- | 3/3 | 3/8 |
|-------------------------|-----|-----|-----|

| | | | |
|--------------|-----|------|-----|
| Do. to falls | 4/6 | 4/10 | 5/6 |
|--------------|-----|------|-----|

Pickerings Lifts

Specialists in vertical
transport for 100 years

... still as modern as the minute



From an old Pickerings catalogue



PICKERINGS LIMITED, GLOBE ELEVATOR WORKS, STOCKTON-ON-TEES

Telephone : Stockton-on-Tees 65278/9 - London Office : 116 Victoria Street, S.W.1. Tel : Victoria 9860

BRANCHES : BELFAST BIRMINGHAM BRISTOL DUBLIN GLASGOW HULL LEEDS
LONDON MANCHESTER NEWCASTLE WORTHING

BENHAM

Cooking Apparatus Manufacturers and Kitchen Planning

Benham Service to Architects comprises:

- Specialist Kitchen Planning
- Manufacture of Cooking Apparatus for all fuels
- Manufacture of Sinks, Drainers, etc., in timber and stainless steel; also "Hercules" high capacity Dish-washing Machines
- The Complete Installation
- Kitchen ventilation, including Hoods and Ductwork
- All hot water and/or steam services, etc.



A copy of Kitchen Planning leaflet, illustrating a few different types of kitchen layouts, is available on request to Practising Architects and Architectural Students.

Part of the Canteen kitchen of Messrs. Gestetner & Co. Ltd., Tottenham, North London. On the right are Cabinet Hot Closets serving the dining room on the other side.

Benham and Sons Limited, 66, Wigmore Street, London, W.1

Telephone: WELbeck 9253 (17 Lines)

BIRMINGHAM · BOURNEMOUTH · BRIGHTON · MANCHESTER · CARDIFF · GLASGOW · YORK

MARS-LUMOGRAPH

the ideal pencil for drawings and blue-prints available in 19 reliable degrees, suitable for all purposes. Leads of the same outstanding quality are also supplied for the unsurpassed MARS-LUMOGRAPH-TECHNICO clutch pencils.

Staedtler Pencils made in Bavaria since the year 1862

STAEDTLER

J. S. STAEDTLER LTD.
83, Copers Cope Road, BECKENHAM, Kent.
Telephone No.: ECKenham 5023 (5 lines)

MEASURED RATES—Continued

FLOORS AND FLATS

| Hollow tile in situ or precast units hoisted, bedded and fixed— Superimposed load | | | |
|--|---------|--------------|---------|
| in lb per foot super | 12 feet | Span | 16 feet |
| 50 .. | 43/- | | 48/9 |
| Per yard super. 100 .. | 44/3 | | 51/3 |
| 150 .. | 48/- | | 54/6 |
| 20lb has been allowed to cover dead load in surface finish. | | | |
| Fair edge to slabs .. | 9d. | per foot run | |
| Splay cutting and waste .. | 1/8 do. | | |

CARPENTER AND JOINER

| SOFTWOOD CARCASSING— | | | |
|--|--------|---------|---------|
| per foot cube— | | | |
| Labour, materials, waste nails, Plates | Joists | Rafters | Trusses |
| hoisting and fixing .. | 17/10 | 18/10 | 20/5 |
| | | | 22/6 |

| FLOORING— | Per square— | 1/2 in | 1 in | 1 1/2 in |
|--|-------------|--------|-------|----------|
| Rough boarding .. | | 130/- | 159/6 | 196/6 |
| Softwood batten flooring, straight joints, splayed headings .. | | 130/- | 159/6 | 196/6 |
| Do. grooved and tongued .. | | 153/- | 183/- | 226/- |

| SKIRTING— | Per foot superficial— | 1/2 in | 1 in | 1 1/2 in |
|---|-------------------------|--------|------|----------|
| Wrot softwood moulded skirting with grounds and backings plugged .. | 3/3 | 3/10 | 4/5 | |
| Mitres to do. .. | 3d. per sectional inch. | | | |
| Fitted ends .. | 2d. do. | | | |

SASHES, fanlights, casements, borrowed lights, etc.—

| Per foot super— | | Without bars | With bars (2ft sup. in each square) |
|--|--|--------------|-------------------------------------|
| 2in softwood rebated, moulded and fixed .. | | 2/11 | 5/- |
| Add if fitted with beads .. | | 6d. | 1/6 |
| Add if hanging on butts .. | | 2/1 each | |

WINDOWS, hung on lines—

| Softwood cased frames, 1in inner and outer linings, 1 1/2 in pulley stiles, 2in sashes, oak sill. Overall size of frames— | | | | |
|---|-------|---------|---------|---------|
| Per foot super. | 6ft | 21ft | 32ft | 44ft |
| Window as described .. | 16/10 | 9/2 | 7/1 | 5/7 |
| Add if sashes in squares, about 2 feet super in each .. | — | 1/4 1/2 | 1/8 1/2 | 1/7 1/2 |
| Extra for hanging sashes with lines, weights and axle pulleys .. | 27/- | 44/6 | 55/- | 74/- |

FINISHINGS TO OPENINGS—

| Per foot super— | | | | | |
|--|--|--------|------|----------|----------|
| Softwood linings, tongued at angles and tongued to frame including grounds and backings .. | | 1/2 in | 1 in | 1 1/2 in | 1 3/4 in |
| Add if crosstongued .. | | 3/4 | 3/10 | 4/7 | 5/2 |
| Softwood wrot rounded on front edge and with tongue at back window board including groove in sill and bearers .. | | 6d. | 6d. | 6d. | 6d. |
| Add for ends to last notched, returned and rounded .. | | 3/3 | 3/8 | 4/6 | 5/- |
| | | 1/- | 1/1 | 1/2 | 1/3 |

| Per foot run— | | Sectional area in inches— | | | | | |
|--|--|---------------------------|--------|----------|-----------|--------|--------|
| Softwood wrot and fixed in bearers, backings, grounds, fillets, and similar .. | | 1 | 2 | 3 | 4 | 5 | 6 |
| Add if in short lengths .. | | 3 1/2 d. | 6d. | 8 1/2 d. | 10 1/2 d. | 1/1 | 1/3 |
| " if plugged to brickwork .. | | 2d. | 2d. | 2 1/2 d. | 2 1/2 d. | 3d. | 3d. |
| " if framed as in legs and bearers .. | | 4d. | 4d. | 4d. | 4d. | 4d. | 4d. |
| " if rebated or grooved or beaded .. | | 3d. | 3d. | 4d. | 4d. | 6d. | 6d. |
| " if chamfered or rounded edges .. | | 1/2 d. | 1/2 d. | 1/2 d. | 1/2 d. | 1/2 d. | 1/2 d. |
| " if moulded in architraves, capping, etc. .. | | 3d. | | | | | |

DOOR FRAMES—

| Per sectional inch— | | 6in | 8in | 10in | 12in | 13 1/2 in |
|--|--|-----|-----|------|------|-----------|
| Softwood, wrot, rebated, rounded framed and fixed .. | | 2/- | 2/4 | 2/10 | 3/2 | 3/4 |

DOORS—Per foot super.

| 2in. Softwood, square framed and flat panels, both sides, on butts .. | | Number of panels— | | | | | |
|---|--|-------------------|-----|------|-----|-----|-----|
| 1 1/2 in do. .. | | 1 | 2 | 3 | 4 | 5 | 6 |
| Add for each side moulded .. | | 5/4 | 6/4 | 6/10 | 7/6 | 7/9 | 8/6 |
| Add for do. flush panelled .. | | 4/6 | 5/4 | 5/10 | 6/4 | 6/7 | 7/1 |
| | | 4d. | 5d. | 6d. | 7d. | 8d. | 9d. |
| | | 8d. | 8d. | 8d. | 6d. | 7d. | 7d. |

| per foot super— | | 1/2 in | 1 in | 1 1/2 in | 1 3/4 in |
|--|--|---------|---------|----------|----------|
| In shelves, table tops, wrot and fixed | | 2/3 | 2/6 | 2/11 | 3/5 |
| Do. in divisions and ends framed .. | | 2/5 1/2 | 2/8 1/2 | 3/1 1/2 | 3/9 1/2 |
| Add if crosstongued .. | | 6d. | 6d. | 6d. | 6d. |
| Add if buttoned .. | | 6d. | 6d. | 6d. | 6d. |

| SUNDRIES—Per foot run | In short lengths | In long lengths | Add for cups & screws |
|--|------------------|---------------------|-----------------------|
| Glazing, beads mitred around and fixed with brads .. | 6d. | 4d. | 2d. |
| Rounded heel or hollow .. | | 4d. | |
| Tongued and grooved angle | | 6d. | |
| Glue blocking .. | | 6d. | |
| Mitres .. | 3d. | per sectional inch. | |
| Fitted ends .. | 2d. | do. | |

STAIRCASE—

| 1 1/2 in Softwood treads with moulded nosings, risers tongued both edges and glued, blocked and bracketed on and including two fir framed carriages .. | 1 in Super |
|--|-----------------------|
| Do. but in winders .. | 5/- |
| 1 1/2 in crosstongued landing on framed carriages .. | 6/2 |
| 2in moulded string .. | 5/- |
| 2in do. ramped .. | 4/10 |
| Ends framed to newel .. | 11/2 |
| Tongued and mitred angles .. | 9/- each |
| Tongued heading joints .. | 4/11 do. |
| Ends of treads and risers housed to string .. | 4/11 do. |
| Extra for curtail ends to steps, glued up and veneered riser and solid blocking .. | 3/6 do. |
| Balusters about 2ft 9in long, square and framed each end .. | 95/- do. |
| 3 1/2 in x 3 1/2 in square newel, framed .. | 1in 1 1/2 in 1 1/2 in |
| African mahogany moulded 3in x 2in hand-rail. (Joints below) .. | 3/5 4/- 4/6 |
| Do. ramped 18in girth (do.) .. | 3/9 per foot run |
| Do. wreathed do. (do.) .. | 8/- do. |
| Joint or framed ends .. | 49/- each |
| | 146/- each |
| | 10/6 each |

FIXING ONLY IRONMONGERY

| To deal | To hardwood |
|--------------------------------|-------------|
| Barrel bolts .. | 1/6 |
| Flush bolts .. | 2/3 each |
| Sash fasteners .. | 3/8 |
| Rim locks and furniture .. | 2/8 do. |
| Mortice locks and do. .. | 2/1 |
| Cupboard locks .. | 5/- |
| Casement fasteners .. | 6/3 do. |
| Do. stays .. | 10/- |
| Grip handles .. | 2/7 |
| Spring catches .. | 2/7 do. |
| Cabin hooks .. | 2/5 |
| Floor springs including oil .. | 2/1 |
| Overhead springs .. | 1/8 |
| Springhinges .. | 2/3 do. |
| | 44/- |
| | 55/- do. |
| | 12/8 |
| | 15/- do. |
| | 10/- |
| | 12/- do. |

SMITH AND FOUNDER

| | |
|---|-------------------|
| Basis framed steel joists and hoist and fix .. | 70/- per cwt. |
| Do. but in compound girders .. | 74/- do. |
| Do. but in stanchions .. | 84/- do. |
| Trusses .. | 97/- do. |
| Additional cost per cwt. over basic sections for following R.S.J.s. | |
| 9in x 7in .. | 3 1/2 d. per cwt. |
| 6in x 3in .. | 4 1/2 d. per cwt. |
| 10in x 8in, 12in x 8in, 14in x 8in, 16in x 8in, 18in x 6in, 18in x 7in, 20in x 6in, 20in x 7in .. | 6 1/2 d. do. |
| 5in x 2 1/2 in, 22in x 7in .. | 10d. do. |
| 4in x 3in, 24in x 7in .. | 1/1 1/2 do. |
| 3in x 3in .. | 2/9 do. |
| 3in x 1 1/2 in .. | 3/10 1/2 do. |
| Bolts and nuts, fitted .. | 155/- do. |
| Forged straps .. | 108/- do. |
| Wrot iron balustrade .. | 130/- do. |

RAINWATER GOODS—

| | |
|--|-----------------|
| Round cast-iron pipe with socketed joints caulked with red lead and tow and fixing with pipe nails and gas barrel distance pieces to plugs in brickwork .. | Per foot lineal |
| 2in .. | 3/5 |
| 3in .. | 4/- |
| 4in .. | 5/2 |
| Extra for shoes .. | 5/- |
| Do. junctions .. | 6/4 |
| Do. bends .. | 9/1 |
| | 7/6 |
| | 9/7 |
| | 13/10 |
| | 5/10 |
| | 7/6 |
| | 9/8 |

RAINWATER GUTTERS

| Per foot run— | 4in | 5in | 6in |
|--|-----|------|-----|
| Half round C.I. gutters jointed in red lead and bolted and fixed on iron brackets .. | 3/3 | 3/11 | 5/- |
| Ogee do. All as last .. | 3/7 | 4/1 | 5/3 |
| Extra for stop ends .. | 3/- | 3/8 | 4/- |
| Do angles or outlets .. | 5/4 | 6/9 | 8/- |

MEASURED RATES—Continued

PLUMBER
EXTERNAL—

| | | | | | | | |
|----------------------------------|-----------------|------------------|------------------|-------|--------------------|------|------|
| 4lb Milled Sheet lead per cwt. | | 179/9 | 212/6 | 222/- | | | |
| LEAD PIPES: running joints, etc. | | | | | | | |
| Per foot run | | $\frac{1}{2}$ in | $\frac{1}{2}$ in | 1in | 1 $\frac{1}{2}$ in | 2in | |
| Main | } with hooks | 5/- | 7/- | 9/9 | 12/5 | 15/6 | 21/6 |
| Service | | 4/5 | 6/1 | 8/1 | 10/- | 13/5 | 17/2 |
| Waste | | 3/- | 4/2 | 5/6 | 6/9 | 8/8 | 11/2 |
| Bends | each | — | — | — | 1/9 | 3/- | 8/- |
| Solder joints | " | 8/1 | 9/7 | 11/4 | 12/11 | 15/1 | 20/4 |
| Union and joints | " | 12/10 | 16/5 | 21/1 | 28/1 | — | — |
| Stop valve and ditto | " | 28/11 | 37/7 | 51/10 | 80/9 | — | — |
| Bib valve and ditto | " | 20/8 | 28/- | — | — | — | — |
| Ball valve and ditto | " | 22/6 | 31/7 | 49/5 | 71/11 | — | — |
| Sleeve and ditto | " | — | — | — | — | 21/3 | 28/9 |

COPPER TUBES

| | $\frac{1}{2}$ in | $\frac{3}{4}$ in | 1in | 1 $\frac{1}{2}$ in | 2in | |
|---------------------|------------------|-------------------|-------------------|--------------------|-------|-------|
| Tubes per foot run | 2/11 | 3/5 | 4/6 | 5/2 | 6/- | 8/8 |
| Couplings: straight | | | | | | |
| each | 3/1 | 3/10 | 5/8 $\frac{1}{2}$ | 7/5 | 9/6 | 12/11 |
| Do. Bends each | 6/- | 7/2 | 10/2 | 13/8 | 20/6 | 28/3 |
| Do. Tees | 7/2 | 8/4 | 12/2 | 16/6 | 22/3 | 31/1 |
| Do Cistern | 4/- | 5/3 $\frac{1}{2}$ | 7/- | 8/11 | 12/4 | 16/2 |
| Stop cocks | 23/10 | 33/6 | 52/9 | 93/- | 138/- | 213/- |

BLACK TUBING (Class C) $\frac{1}{2}$ in $\frac{3}{4}$ in 1in 1 $\frac{1}{2}$ in 2in

| | | | | | | |
|--------------------------|------|-----|------|-----|------|------|
| fixed with pipe brackets | — | — | — | — | — | — |
| Tubes, per foot run | 1/9 | 2/1 | 2/7 | 3/3 | 3/10 | 5/1 |
| Bends and fix, each | 3/10 | 4/7 | 5/7 | 7/3 | 8/2 | 12/8 |
| Tees and ditto | 4/- | 4/9 | 5/9 | 7/5 | 9/- | 13/4 |
| Fire bends | 1/5 | 1/9 | 1/10 | 2/1 | 2/9 | 4/10 |

| | | |
|--|-------|--------------|
| Coated iron (M) weight L.C.C. soil and waste fixed with nails and distance | 2in | 4in |
| pieces and molten lead joints | 4/10 | 7/- foot run |
| Extra only for bends and joint | 12/10 | 21/2 each |
| Do. junctions and joints | 14/4 | 26/7 do. |
| Do. cleaning doors | 14/4 | 15/8 do. |
| Domical wire guards | 2/6 | 2/9 do. |

PLASTERER—

| | yard super |
|---------------|---|
| Lime and hair | $\frac{1}{2}$ " Render and set .. 6/- |
| Do. | $\frac{1}{2}$ " Ditto float and set .. 7/6 |
| Sirapite | $\frac{1}{2}$ " Skimming coat .. 3/8 |
| Do. | $\frac{1}{2}$ " Render and set .. 7/4 |
| Do. | $\frac{1}{2}$ " Render float and ditto .. 9/- |
| Portland | $\frac{1}{2}$ " Backing coat .. 4/2 |
| Do. | $\frac{1}{2}$ " Plain face .. 7/4 |
| Do. | $\frac{1}{2}$ " Floor screed .. 4/6 |
| Keenes | $\frac{1}{2}$ " Skimming coat .. 4/9 |
| Dubbing | $\frac{1}{2}$ " Thick or less .. 2/- |
| Metal lathing | $\frac{1}{2}$ " mesh \times 24 Gauge .. 5/7 |

6" \times 6" \times $\frac{1}{4}$ " Earthenware Plain Glazed Tiles, in fair quantity, white, and setting (on prepared screed) .. 38/-

Rounded edge. Extra over last .. 4d. per foot run.
Angles in ditto .. 4d. each

Cutting and fitting. Around pipes or clips 1/- ditto

Narrow widths. 3" to 6" wide. Add 75% to plain surface.
Ditto, 6" to 12" ditto. Add 40% to plain surface.

Sundry labours per foot linear:—

Quirk 2d. Arris 3d. Fair edge 2d. Rounded edge 4d.

Flush bead 1/5.

Mouldings—5d. per inch girth.

Jointing new plastering to old 3d.

POLISHING

NEW WORK—

Staining, bodying-in and French Polish .. 2/6 Foot super 1/7 Sashwork

Staining and wax polishing on hardwood .. 1/1 9d.

OLD WORK—

Cleaning down old work and repolish .. 1/-

Stripping, preparing and repolishing .. 2/9 1/11

INTERNAL PAINTING

With white lead base in common colours, with brushes.

ON WOOD—

General surfaces .. 2/5 $\frac{1}{2}$ Knot stop and prime 4/9 Prime and paint once 6/6 Prime and paint twice 1/9 $\frac{1}{2}$ Add for each extra coat Yard super

Running lengths not exceeding 3" wide 3 $\frac{1}{2}$ d. 7d. 9 $\frac{1}{2}$ d. 2 $\frac{1}{2}$ d. Yard run
Do. 3" to 6" wide .. 5d. 9 $\frac{1}{2}$ d. 1/0 $\frac{1}{2}$ d. 3 $\frac{1}{2}$ d. do.
Do. 6" to 9" wide .. 7 $\frac{1}{2}$ d. 1/2 $\frac{1}{2}$ 1/7 $\frac{1}{2}$ 6d. do.
Do. 9" to 12" wide .. 10 $\frac{1}{2}$ d. 1/6 $\frac{1}{2}$ 2/1 7d. do.
Sash square each side 5/- 8/9 11/6 3/- per doz.
Do. in large squares 7/3 12/3 16/8 4/4 do.
Opening edges .. 7d. 1/2 1/9 7d. each

Casement frames each side .. 4 $\frac{1}{2}$ d. 8 $\frac{1}{2}$ d. 1/- 3d. Yard run
Mullions or transoms, do. .. 6 $\frac{1}{2}$ d. 11 $\frac{1}{2}$ d. 1/3 4 $\frac{1}{2}$ d. do.

ON PLASTER—

Paint on surfaces .. One coat Two coats Three coats

Do. on mouldings .. 3/- 5/6 7/4 Per Yard super

Do. on enrichment .. 4/7 8/8 11/3 do.

ON STEEL—

Paint on structural steel .. 2/- 3/10 5/5 do.

Do. on roof trusses .. 3/4 6/6 8/11 do.

Do. on metal windows measured over all on both sides, divided into squares 3/1 5/3 7/5 do.

Do. divided into large squares .. 2/7 $\frac{1}{2}$ 4/6 5/10 $\frac{1}{2}$ do.

Do. divided into extra large squares .. 2/2 $\frac{1}{2}$ 3/9 5/- do.

Do. on opening edges .. 9 $\frac{1}{2}$ d. 1/5 $\frac{1}{2}$ 1/11 each

Do. on rain water pipe .. 9d. 1/6 2/- Yard run

Do. on do. gutter .. 1/2 2/6 3/5 do.

Do. on small pipe .. 3d. 6d. 9d. do.

GLAZING (to New Work)

Polished Plate Glass ordinary substance (about $\frac{1}{16}$ in), glazing quality, in the following sizes, glazed complete— Per foot super

In plates not exceeding 2 feet super in each .. 4/10

Do. 5 feet .. 5/8

Do. 45 feet .. 6/4

Do. 100 feet .. 6/9

Add extra price for glazing with screw beads or clips 3d. per foot super.

Do. if glazing bedded in washleather or velvet 6d. per foot run.

SHEET GLASS, glazed, complete, per foot super, in new work:

Ordinary quality clear glazed to wood with putty in areas of 100 feet super in the aggregate .. 1/10 $\frac{1}{2}$ 2/1 2/4

Do. 200 feet do. .. 1/8 1/10 2/1

Do. 500 feet do. .. 1/6 $\frac{1}{2}$ 1/8 $\frac{1}{2}$ 1/11 $\frac{1}{2}$

Figured rolled and Cathedral, glazed to wood with putty in 100 foot super areas in aggregate. (White). ($\frac{1}{16}$ in.)

Per foot super .. 1/11 $\frac{1}{2}$

Do in standard tints .. 2/7 $\frac{1}{2}$

Fluted, glazed do. .. 2/4 $\frac{1}{2}$

Reeded (narrow, broad, etc.) do. .. 2/4

Reedlyte do. .. 2/4

Spotlyte do. .. 2/3

$\frac{1}{16}$ in. Rough cast do. .. 2/2 $\frac{1}{2}$

$\frac{1}{16}$ in Do. wired do. .. 2/6

$\frac{1}{16}$ in Georgian Rough Cast do. .. 2/5 $\frac{1}{2}$

Add for glazing all as before but to steel to similar work as above, 2d. per superficial foot.

PAINTER AND DECORATOR

DISTEMPERING—In common colours, put on with brushes—**ON PREPARED SURFACE.**

1 coat 2 coats Add if required

per yard super— (finish) (under-coat and finish) Sealing coat Stippling

Ordinary distemper on flat surface of plaster .. 8d. 1/3 5 $\frac{1}{2}$ d. 2d.

Washable do. on do. of plaster .. 10 $\frac{1}{2}$ d. 1/8 $\frac{1}{2}$ 5d. 2d.

Add if in margins, narrow widths or panels .. 30% 30% 20% 50%

Add if on mouldings .. 50% 50% 45% —

Add if on enrichments .. 160% 160% 115% —

PAPERHANGING

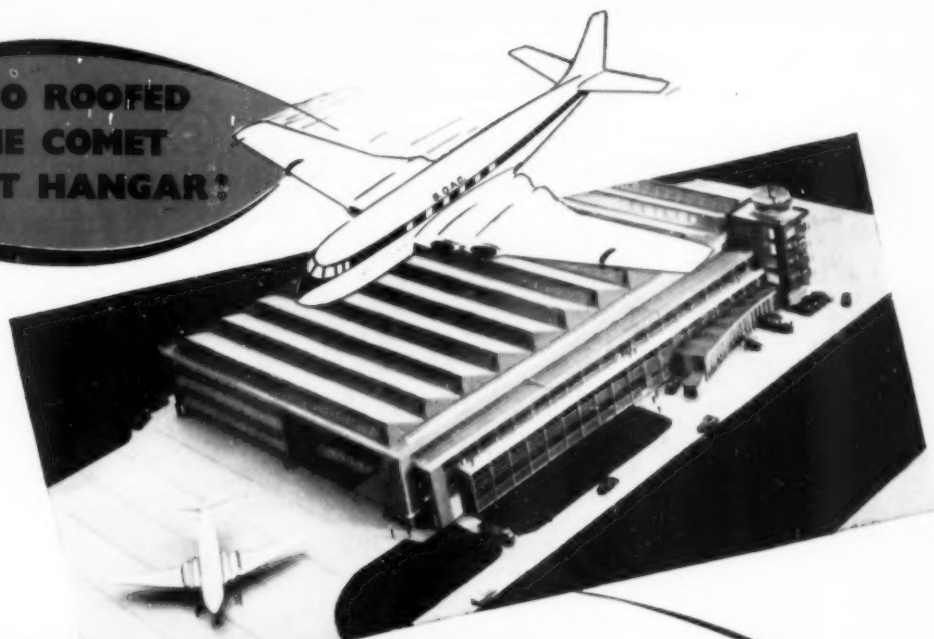
Hanging only— Per Piece— Lining Pattern

On walls .. 6/6 7/9

On stairs .. 8/10 10/4

On ceilings .. 7/9 9/1

**WHO ROOFED
THE COMET
FLIGHT HANGAR?**



Ceiling Effect of Bitumetal Roof giving clean bright appearance of the interior and saving in lighting costs.

BRIGGS
of Course!

"Comet" Flight Hangar for the De Havilland Aircraft Co. Ltd.
200 ft. Clear Span—The World's largest in Aluminium.
Architects:—James M. Monro & Son, Watford.
Contractors:—S. & M. D. Engineers Ltd., Slough.
Gilbert Ash, Ltd., London.

How Bitumetal Roofed This Building.

1. Aluminium Units fixed to Roof Purlins.
2. $\frac{1}{2}$ " Insulation Board and Briggs Flexible Roofings on Top.

WEATHER-
PROOFING



INSULATION

ALUMINIUM

This magnificent Flight Hangar for Comet Aircraft was roofed entirely with Bitumetal, Briggs modern development in Aluminium Roofing.

Bitumetal has been associated with many of the greatest construction projects in this country because it provides in one unit at economical cost, Roof plus Insulation plus Ceiling.

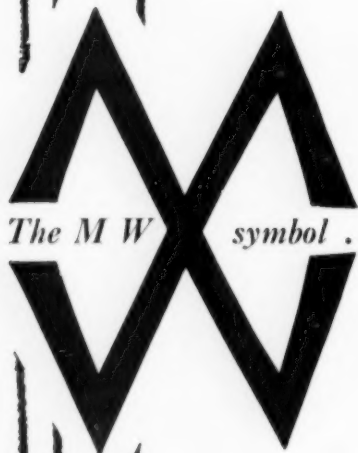
Ask our nearest Area Manager for complete technical details of Bitumetal and how adaptable it is for small buildings as well as large.

WILLIAM BRIGGS & SONS LTD. Vauxhall Grove, London, S.W.8 Regd. Office Dundee

OFFICES & DEPOTS ALSO AT ABERDEEN · BELFAST · BRISTOL
EDINBURGH · GLASGOW · LEICESTER · LIVERPOOL · NORWICH

**The selling price of
Standard Metal Windows
has been reduced by $3\frac{3}{4}\%$
since government control
ended in 1952.....**

**..due to the efforts
of the Metal
Window Association**



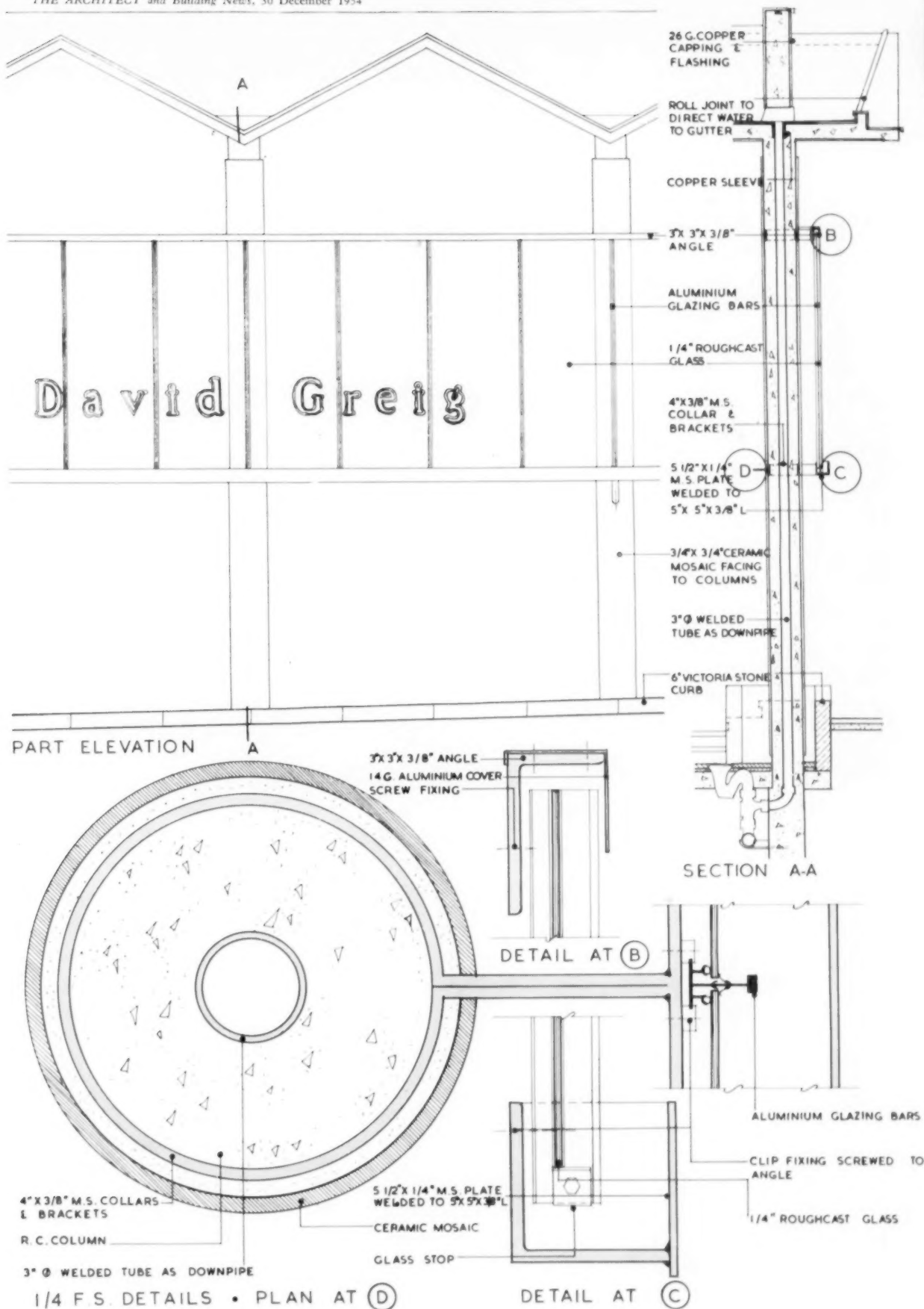
The M W

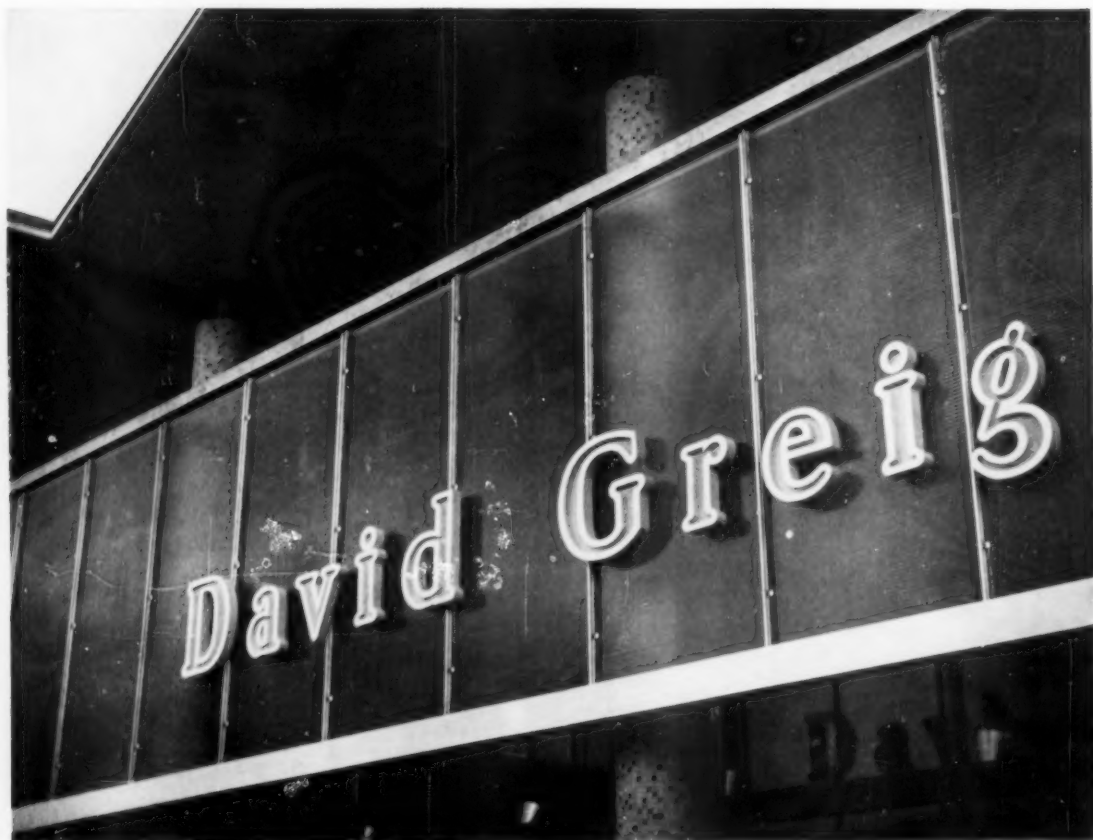
symbol

of the Metal Window Association is a guarantee of good faith and good work. For many years the members have been gradually improving the efficiency and finish of Metal Windows.

THE METAL WINDOW ASSOCIATION

BURWOOD HOUSE, CAXTON STREET, LONDON, S.W.1.





GLASS FASCIA, SHOP IN CANTERBURY

ARCHITECTS: ROBERT PAINE & PARTNERS

Notes below give basic data of contracts open under locality and authority which are in bold type. References indicate: (a) type of work, (b) address for application. Where no town is stated in the

CONTRACT • NEWS •

OPEN

BUILDING

BEBINGTON B.C. (a) First stage of a new town hall. (b) Messrs. Willink and Dod, Cunard Building, Liverpool. (c) 3gns. (d) Feb. 1.

BEDFORDSHIRE E.C. (a) Construction of secondary school, Elstow. (b) County Architect, Shire Hall, Bedford. (d) Jan. 10.

BOOTLE B.C. (a) Erection of a day special school for E.S.N. children, Menai Road. (b) Borough Surveyor, Town Hall. (c) 2gns. (e) Jan. 20.

CANVEY ISLAND U.C. (a) (1) 10 bungalows (Contract 33); (2) 10 semi-bungalows and 8 garages (Contract 34); Haven Road site. (b) Engineer and Surveyor, Council Offices. (c) 2gns. (e) Jan. 4.

CARDIGAN C.C. (a) Additions and adaptations at the Cardigan County Grammar School. (b) County Architect, County Hall, Aberayron. (c) 2gns. (e) Jan. 10.

CHATTERIS U.C. (a) 23 bungalows and site works, New Road. (b) Engineer and Surveyor, Grove House. (c) 2gns. (e) Jan. 28.

CHELMSFORD B.C. (a) 6 shops with 2 maisonettes and 4 flats, Westlands Estate. (b) Borough Engineer, Municipal Offices. (c) 2gns. (e) Jan. 19.

COLCHESTER B.C. (a) 8 flats, 50 houses and 8 aged persons' bungalows, Blackheath section of Monkwick site. (b) Borough Engineer, 64, West Stockwell Street; for whole or part contract. (c) 2gns. (e) Jan. 7.

CREWE B.C. (a) 1 pair of houses adjoining Crewe Gates Farm, Crewe Road. (b) Engineer and Architect, Municipal Buildings. (c) 2gns. (e) Jan. 13.

HAVANT AND WATERLOO U.C. (a) Pavilion at Hayling Park, Hayling Island. (b) Engineer and Surveyor, Council Offices, 1, Park Road North, Havant. (c) 1gn. (e) Jan. 8.

LONDON—LEYTON B.C. (a) Repointing of brickwork to Town Hall and Library, High Road, E.10. (b) Engineer and Surveyor, Town Hall, E.10. (c) 2gns. (e) Jan. 5.

LONDON—WOOD GREEN B.C. (a) (1) Contract "A": 1 block of 6 flats in Granville Road and 1 block of 2 flats in Grainger Road; (2) Contract "B": 3 blocks of 3 flats in Grosvenor Road and 1 block of 2 flats in Crescent Rise. (b) Borough Engineer and Surveyor, Town Hall, N.22. (c) 2gns. (e) Jan. 11.

MABLETHORPE AND SUTTON U.C. (a) Cafe at Dunes Gardens, North Promenade, Mablethorpe. (b) Clerk of the Council, Council Offices, Mablethorpe. (c) 1gn. (e) Jan. 5.

address it is the same as the locality given in the heading, (c) deposit, (d) last date for application, (e) last date and time for submission of tenders. Full details of contracts marked ★ are given in the advertisement section.

FIBRE INSULATION BOARD

"QUITFIRE" impregnated is **FIREPROOFED** (Class 1 to B.S.476/32 Amdt No. 2) and **FUNGUS**-proofed or **TERMITE**-proofed (or all three combined.)

Used on Government contracts, Industrial Buildings, Schools, etc.

Enquire of your supplier or processors:

S. O. Rudkin & Co. Ltd.

Plantation House, Mincing Lane, LONDON, E.C.3
Tel: MANSion House 4406 (3 lines)

BOSTWICK METALWORK

OF EVERY DESCRIPTION &
OUTSTANDING EXCELLENCE

BOSTWICK GATE & Co. Ltd.
SHUTTER

Original Patentees of the Collapsible Gate.

HYTHE ROAD, WILLESSEN, N.W.10
Telephone: LADbroke 3661

NEW!

HARLTON (PATENTED)

TRADESMEN'S DELIVERY SAFE

- 4 self-locking compartments in revolving drum
- Frame of hatch mounted flush with external wall
- Burglar-proof Fly-proof Draught-proof
- External dimensions: 22" x 19"
- Weight 78lbs.
- Compact and attractive in appearance
- Negligible fitting costs

Write for descriptive leaflet to:—

HARLTON MANUFACTURING CO.,
SPHINX WORKS,
CROWHURST ROAD, HOLLINGBURY
BRIGHTON 6.

Phone: Brighton 58351 (5 lines).

BULLDOG



**FLOOR &
CEILING CLIPS**

Standard and Acoustic



**THE ADAMITE
COMPANY LTD.**
MANFIELD HOUSE, STRAND, W.C.1

MULLEN AND LUMSDEN

LIMITED

Contractors and
Joinery Specialists

**41 EAGLE STREET, HOLBORN,
LONDON, W.C.1.**

Telephone: CHAncery 7422/3/4

Branches:
5, Coptic St., W.C.1. Southampton
Tel.: Museum 3705 Tel. No. 73176

**how much does
our reputation
cost you?**

It doesn't. Many think you pay for a name. That may be true of some, but certainly not of us.

The experience we have gained in doing the same job well for 100 years enables us to quote low rates.

**for built-up roofing
it pays you**



ENGERT & ROLFE LTD
LONDON E14 EAST 1441

& The Quay Exeter (Exeter 3595)

883

MAIDENHEAD B.C. (a) 44 houses, Spencers Estate, with drainage and site works. (b) Engineer and Surveyor, 14, Crauford Rise. (c) 2gns. (e) Jan. 31.

MANCHESTER C.C. (a) Erection of Kirkmanshulme grammar school, Kirkmanshulme Lane. (b) City Architect, P.O. Box No. 488, Town Hall. (c) Jan. 12.

NEWCASTLE UPON TYNE C.C. (a) 108 flats and maisonettes, Kenyon North Estate. (b) City Architect, 18, Cloth Market, 1. (c) Jan. 13.

N. IRELAND—ANTRIM COUNTY HEALTH COMMITTEE. (a) Alterations to Divisional Office and Clinic at 58, Main Street, Larne. (b) Messrs. Thomas T. Houston and Co., 26, College Gardens, Belfast. (c) 3gns. (e) Jan. 4.

N. IRELAND—BELFAST C.C. (a) Erection of a factory, Donegal Road. (b) Messrs. F. H. Wright and Partners, 11, College Square North. (c) 3gns. (e) Jan. 5.

N. IRELAND—LONDONDERRY R.C. (a) 16 houses, Tullyally. (b) Messrs. W. and M. Given, 3, Richmond Street. (c) 5gns. (e) Jan. 18.

N. IRELAND—MAGHERAFELT R.C. (a) 10 houses, Desertmartin. (b) Messrs. W. and M. Given, 1, Waterside, Coleraine. (c) 3gns. (e) Jan. 6.

NORWICH C.C. (a) Erection of junior school, Locksley Road, South Tuckswood estate. (b) City Architect, City Hall. (c) 2gns. (e) Jan. 7.

PENRITH U.C. (a) 76 houses, Scaws Estate, with site works, roads and sewers. (b) Engineer and Surveyor, Town Hall.

RAMSGATE B.C. (a) Construction of a steel shelter on Royal Victoria Pavilion. (b) Borough Engineer, Municipal Buildings. (c) 2gns. (e) Jan. 19.

SCOTLAND—COATBRIDGE, AIRDRIE AND DISTRICT HOSPITALS BOARD OF MANAGEMENT. (a) Erection of a nurses' home, Bellshill Maternity Hospital. Separate trades. (b) Group Secretary, Board of Management, Hairmyres Hospital, East Kilbride. (c) £10. (d) Jan. 8.

SCOTLAND—FIFE C.C. (a) Erection of Queen Anne junior school, Broomhead, Dunfermline. All or separate trades. (b) Messrs. Wilkinson and Lowe, 2a, Chalmers Street, Dunfermline.

SCOTLAND—ZETLAND C.C. (a) 8 houses at Baltasound and 8 houses at Whiteness. Separate trades. (b) County Architect, 92, St. Olaf Street, Lerwick, Shetland. (c) Jan. 29.

SOUTHEND-ON-SEA B.C. (a) Erection of a special school, Eastwood Lane, Leigh-on-Sea. (b) Borough Architect, Municipal Buildings. (c) £2. (e) Jan. 21.

STOCKSBRIDGE U.C. (a) 4 shops with 4 flats over and 4 garages, Stubbin Farm Estate. (b) Messrs. Husband and Co., 388, Glossop Road, Sheffield, 10. (c) 3gns. (e) Jan. 18.

STOKE-ON-TRENT C.C. (a) Extensions to a technical college in North Staffs. (b) City Architect, Kingsway Chambers, Kingsway; giving details of comparable contracts. (d) Jan. 8. (e) Mar. 8.

STRUCTURAL ENGINEERS

DUNLOP AND RANKEN LTD

Telephone LEEDS 27301 (20 Lines)

ALL CLASSES OF STEELWORK DESIGNED & ERECTED

FIRE FIEND

FEARS RAPID, RELIABLE

NU-SWIFT !

Unseen by you, the Fire Fiend searches everywhere for easy prey. Are you well equipped to fight back if he picks on you for his next victim?

Nu-Swift Ltd., 25 Piccadilly London W.1. REG 5724

In Every Ship of the Royal Navy

THE ECONOMIC

HOUSE DRAINAGE RPG. CO. LTD.

147, MARYLEBONE ROAD, N.W.1.

SPECIALISTS IN PATENT DRAINAGE AND FLUE RESTORATION WORKS (UNDER RESTALLS PATENTS), DRAINAGE RECONSTRUCTION AND SANITARY PLUMBING WORKS IN TOWN AND COUNTRY (FLUE EXHIBIT AT BUILDING CENTRE).

ESTABLISHED OVER HALF A CENTURY

PHONE: PAD 2273 (Two lines)

"CRETE-O-LUX"

for: PAVEMENTS, ROADWAYS, FLOORS, Etc.

also: CANOPIES, SHELTERS, ROOFS, Etc.

LIGHTS

Supplied Pre-cast for most situations and adaptable to all present-day needs.

HAYWARDS LTD

UNION STREET, LONDON, S.E.1

LIGHTNING CONDUCTORS

J. W. GRAY & SON LTD.

13, CASTLE ST., SALISBURY

Telephone: SALISBURY 2750

CHURCH SPIRE RESTORERS

STONE U.C. (a) 37 dwellings, Lichfield Road site. (b) Messrs. Forshaw, Massey and Greaves, Old White Hart, 73, Trinity Street, Hanley, Stoke-on-Trent. (c) 2gns.

SUNBURY-ON-THAMES U.C. (a) 90 houses and 14 bungalows, housing site No. 12A at Upper Halliford. (b) Engineer and Surveyor, Council Offices, Green Street. (c) 2gns. (d) Jan. 1. (e) Jan. 18.

SUNDERLAND B.C. (a) Erection of Castle View primary junior boys' and girls' schools, Hylton Castle Estate. (b) Borough Architect, Grange House, Stockton Road. (c) 2gns. (e) Jan. 15.

THIRSK R.C. (a) Rebuilding of the public conveniences at the Market Place. (b) Council Offices. (c) 2gns. (e) Jan. 22.

TWICKENHAM B.C. (a) Erection of a municipal depot, Craneford Way. (b) Borough Engineer, Municipal Offices. (c) 3gns. (e) Jan. 10.

WANTAGE U.C. (a) Alterations and additions to existing building to form public conveniences. (b) Surveyor, Council Offices, Portway. (c) Jan. 6.

WORTLEY R.C. (a) 10 houses, Dungenworth. (b) Arthur Wikeley, Council Offices, Grenoside, Sheffield. (c) £3. (e) Jan. 10.

YORK C.C. (a) 14 houses, Amberley Street and Chatsworth Terrace. (b) City Architect, 8, St. Leonard's Place. (c) £1. (e) Jan. 10.

PLACED

Notes on contracts placed state locality and authority in bold type with (1) type of work, (2) site, (3) name of contractor and address, (4) amount of tender or estimate. † denotes that work may not start pending final acceptance, or obtaining of licence, of modification of tenders, etc.

LONDON COUNTY COUNCIL. (1) 210 flats in 9- and 8-storey blocks. (2) Denmark Road, Camberwell. (3) Gilbert-Ash, Ltd., 1, Stanhope Gate, London, W.1. (4) £393,749. (1) 27 flats and 12 flats. (2) Nunhead Crescent, Camberwell. (3) Unit Construction Co., Ltd., Feltham, Middlesex. (4) £81,241.

HARLOW DEVELOPMENT CORPORATION. (1) "No Fines" dwellings. (2) Hare Street, No. 35 and No. 30. (3) Geo. Wimpey and Co., Ltd., Hammer-smith Grove, London, W.6. (4) £203,719 and £133,700.

LEICESTER B.C. (1) 448 flats in seven 10-storey blocks. (2) Marsh Lane. (3) G. Calverley and Sons, Ltd., Evington Valley Road, Leicester. (4) £943,368.

LINCOLNSHIRE. (1) Construction of sea wall and repairs to concrete apron, for British Railways. (2) Between New Clee and Cleethorpes. (3) Clugston Cawood, Ltd., 16, High Street East, Scunthorpe.

SOUTHAMPTON B.C. (1) 34 dwellings. (2) Grange Farm Estate. (3) C.P.C. (Southampton), Ltd., Millbrook Road, Southampton. (4) £48,763.

WESTON-SUPER-MARE B.C. (1) 54 houses. (2) Coronation Estate. (3) Hotby and Dudman, Ltd., Rector's Way, Weston-super-Mare, Som. (4) £68,725.

**UNBREAKABLE PLASTER VENTILATORS,
LOUVRES AND GRILLES**

Full Particulars & Sample on request from
COZENS VENTILATORS LTD.
2, Kingswood Road, Penge, London, S.E.20
SYDENHAM 8575

**ASPHALT
WORK
TO ALL B.S.S.**

**COVERITE
(ASPHALTERS) LTD**
PALACE GATES 57th, R.32 Baines Park 1957

Specify

CERRUX
DECORATIVE PAINTS
CELLON LTD., KINGSTON-ON-THAMES

**London's Finest new & secondhand Value
ARCHITECTS' PLAN CHESTS**

Steel & Wood Office Furniture
Filing Cabinets
Sofas Chairs etc.
M. MARGOLIS
378-380 BUSTON ROAD LONDON N.W.1 Phone EUS 1335

COURSES for all R.I.B.A. EXAMS

Postal tuition in History, Testimonies, Design,
Calculations, Materials, Construction, Structures,
Hygiene, Specifications, Professional Practice,
etc. Also in general educational subjects.

ELLIS SCHOOL OF ARCHITECTURE
Principal: A. B. Waters, M.B.E., G.M., F.R.I.B.A.
1030 OLD BROMPTON ROAD, LONDON, S.W.7
Phone: KEN. 4477 and at Worcester

CHORLEY, LANCS. (1) 9 houses, 6 flats, and 16 flats. (2) Charnock Richard site and Whittle-le-Woods. (3) J. Gaffney and Son, 277, Whelley, Wigan. (4) £58,821.

LEWISHAM B.C. (1) 24 flats, 3 houses. (2) Leahurst Road. (3) S. G. and A. Agombar, 352, Norwood Road, London, S.E.27. (1) 18 flats. (2) Mount Pleasant Road. (3) H. Kent (Builders) Ltd., 51, Beacon Road, London, S.E.13. (4) £23,446. (1) 6 flats. (2) St. Louis Road. (3) H. T. Oliver and Sons, Ltd., 371, Clapham Road, London, S.W.9. (4) £12,081.

CARLISLE. (1) Three-storey extensions, for Burroughs, Ltd. (2) Castle Street-St. Mary's Gate. (3) J. Millar and Sons, Ltd., 15, London Road, Carlisle.

STAFFORDSHIRE C.C. (1) Primary school. (2) Lichfield. (3) J. and F. Wootton, Ltd., Pinfold, Bloxwich, Walsall, Staffs. (4) £40,860.

SOUTHAMPTON B.C. (1) Erection of health centre. (2) Millbrook. (3) J. Lewis Building, Ltd., Portland Terrace, Southampton. (4) £23,442.

YORK. (1) Extensions, including classrooms. (2) St. John's College. (3) William Birch and Sons, Ltd., Spen Lane, York.

WATFORD B.C. (1) 61 houses. (2) Meriden Estate. (3) A. E. Islip and Co., Ltd., Leavesden Green Estate, Watford. (4) £76,500.

VARDALE FENCING Co. Ltd.

(DEPT. A)
109, SHAKESPEARE ROAD, HERNE HILL, S.E.24
BRUXTON 8282
**ALL TYPES OF FENCING and
GATES supplied and erected**

ENGLISH TIMBERS

for Building and Joinery Trades, Oak Planks for Cills, Half-Timbering, or scantling to size.

Architects' designs for Panelling and exclusive furniture faithfully interpreted

**GATES AND OAK DOORS
A SPECIALITY**

Seasoned quartered boards for Flooring, Panelling, etc. Machining done and Joinery manufactured for the trade, Gates and Fencing. Established 1884.

WYCKHAM BLACKWELL Ltd.
Hampton-in-Arden, BIRMINGHAM

Telephone: HAMPTON-IN-ARDEN, 3

**Save Bricks by using
TRUE FLUE**

**STACK CONSTRUCTION
TRUE FLUE LTD**
CONVECTOR HOUSE, ACACIA ROAD
ST. JOHNS WOOD, LONDON, N.W.8

SOUNDPROOF CONSTRUCTION
LONDON N.W.2.
ANECHOIC CHAMBERS
SOUND DEADENING &
ABSORPTION EXPERTS
WILLESDEN 7107

**LIGHTNING
conducted by**

Gullings A. Dept.,
17, CRAWFORD ST., W.I.
Any Building. Anywhere.

DOMESTIC WATER HEATING

Basic Engineering Principles of Electric and Solid-fuel Installations

This book by RONALD GRIERSON, M.I.E.E., M.I.MECH.E., provides a critical analysis of current practice in the supply of hot water for domestic purposes. The increasing cost of and enormous demand for new housing have made the time opportune for such an investigation, for it is generally conceded that the standard of efficiency and running costs of many present-day household installations leave much to be desired.

The only remedy for their deficiencies lies in the application of sound engineering principles, and these the author has applied to the design of water-heating plant of the solid fuel/electric type.

The book deals mainly with the combination of an electric immersion heater and thermostat with

the conventional hot-water storage tank, in conjunction with a coal- or coke-fired domestic water heater, the water heater being arranged either as a "back-boiler" or as an independent unit.

The author contends that a suitably arranged installation of this type can be both economical and efficient, and disposes conclusively of the notion that "electric water heating is convenient but expensive."

The book contains, in addition, considerable reference to the factory-made, self-contained, storage type of electric water heater.

25s. net. By post 25s. 7d.

Obtainable from all good booksellers or direct by post from:—

The Publishing Department, Dorset House, Stamford St., London, S.E.1

Hangers

PAINT MAKERS SINCE 1872

On request, the book will be sent together with details of the shades available in

- 'FLORALAC' Hard Gloss
- 'FABRIGUARD' Emulso Plastic Paint
- 'PEERLESS' Flat Oil Paint

★ Please send Hangers Archrome (Munsell) Range Book.

NAME _____

ADDRESS _____

A/1

OFFER THIS TINT BOOK



Shades are those adopted by the Ministry of Education.

HANGERS PAINTS LTD. HULL

also at LONDON, LIVERPOOL, BIRMINGHAM, GLASGOW, TOROUAY.

We have many handles to our name

... these illustrated are just a few. Lacinoid handles are designed to stand up to any amount of hard usage without ever losing their good looks.

LACRINOID

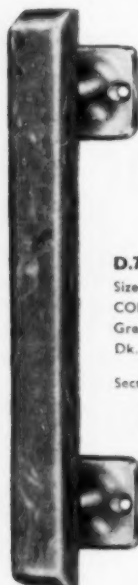
TRADE MARK



D.76

Size Overall 8"
COLOURS
Walnut/Peach

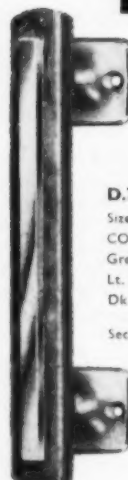
Section



D.75

Size Overall 7½"
COLOURS
Green, Lt. Walnut,
Dk. Walnut

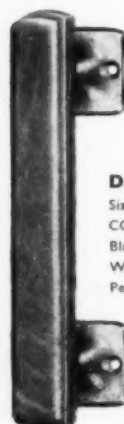
Section



D.77

Size Overall 6½"
COLOURS
Green/Chrome
Lt. Walnut/Chrome
Dk. Walnut/Chrome

Section



D.73

Sizes Overall 6" & 6
COLOURS
Black, Ivory, Green,
Walnut, Dk. Walnut,
Peach

Section



LACRINOID PRODUCTS LTD
TELEPHONE: HORNCHURCH 2981/6

• GIDEA PARK WORKS

• GIDEA PARK

• ESSEX

TELEGRAMS: LACRINOID, ROMFORD
HCH814



A long corridor.

By courtesy of Mullard Radio Valve Co., Ltd.



BY APPOINTMENT MAKERS OF SAFES
TO THE LATE KING GEORGE VI.

CHATWOOD

flush surface steel partitions

Handsome modern appearance and a feeling of permanence are achieved without sacrifice of adaptability by the new Chatwood flush partitioning. Erection and dismantling are especially simple, and remarkable dimensional flexibility, with full height partitioning, provides for any conditions likely to be found in new or old buildings.

Chatwood flush surface steel partitions are supplied in stove-enamelled coloured finishes to the customer's specification. They are manufactured by a company whose reputation for the highest quality has gathered strength for a hundred years.

THE CHATWOOD SAFE AND ENGINEERING CO. LTD

Steel Partitioning Division: 3, Laurence Pountney Hill, London, E.C.4

HEAD OFFICE: SHREWSBURY, ENGLAND

BRANCH OFFICES: ROYAL EXCHANGE ARCADE, MANCHESTER 2 26 WEST NILE ST., GLASGOW C.1

GLASCRETE

Reinforced Concrete and Glass

WINDOWS

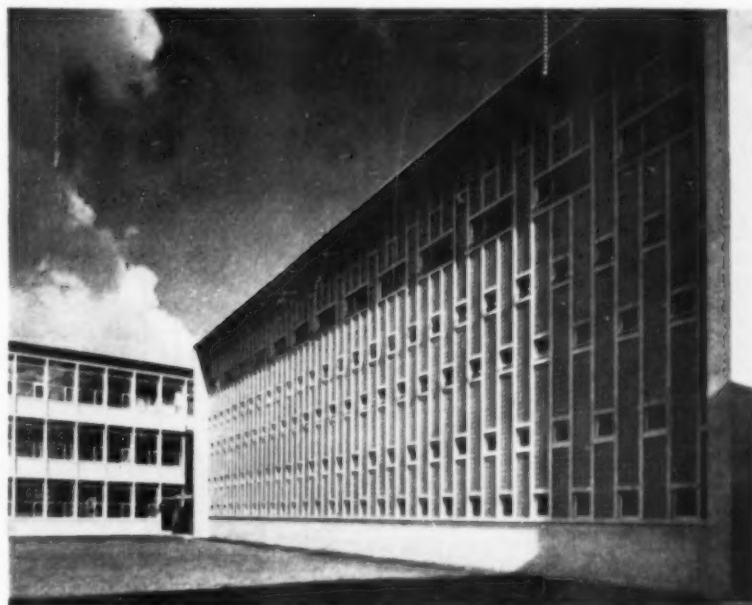
at

Renold House
Wythenshawe, Manchester.

Architects:

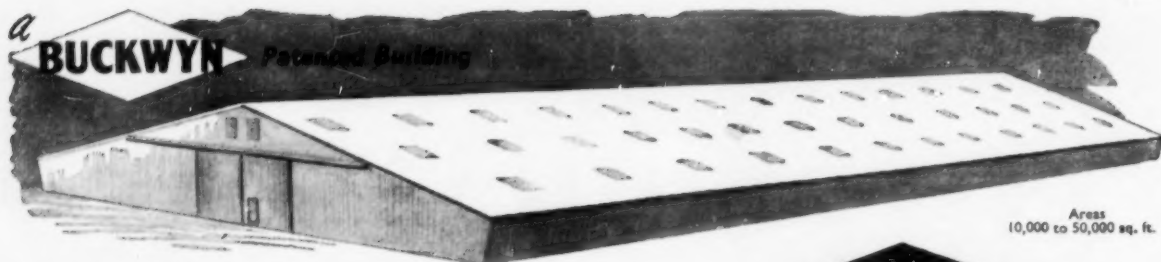
Messrs. Cruickshank & Seward

One of two similar windows constructed of precast mullions and transoms having an infilling of Insulight Hollow Glass Blocks.



Data, applications and possibilities of Glascrete are given in our interesting Brochure P.45, which we shall be pleased to send on request.

J. A. KING & CO. LTD
181 Queen Victoria St. LONDON, E.C.4
Telephone: CENTRAL 5866 (5 Lines)



The World's most economical warehouse

As adopted by the Admiralty, the Ministry of Works, the Ministry of Supply and Foreign Governments.

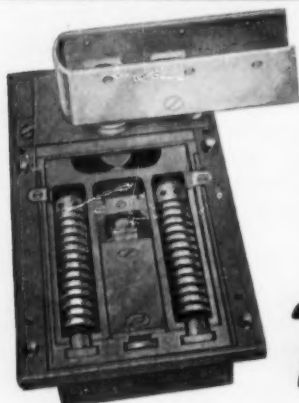
Frame construction in tubular steel and high tensile cable, Buckwyn metal tiled in aluminium or steel with or without insulation for all climatic conditions.

Complete buildings from 7½ sq. ft. delivered on site or F.O.B. or 9½ sq. ft. erected.

BUCKWYN CONSTRUCTIONS LTD (Dept. 17) TWYFORD, BERKS, ENGLAND

Tel.: Wargrave 318

*In the race
for economy
BUCKWYN
wins!*



DOORS NEED NOT S-L-A-M

—specify

"Victor" DOOR SPRINGS

ALSO

- WINDOW GEARING AND FANLIGHT OPENERS
- 'X-IT' PANIC BOLTS
- LOCKS
- DOOR FURNITURE
- CASEMENT FITTINGS
- SPRING SASH BALANCES

"VICTOR" fittings are specified by all leading Architects.

ROBERT ADAMS (VICTOR) LTD

139 STAINES ROAD, HOUNSLOW, MIDDX

Telephone: Hounslow 5714

An essential fitting with self-contained check for Public Buildings, Housing Schemes, Office Blocks, etc. In shallow and water-tight floor patterns. Over-head types to suit every purpose.

Telephone:
ENfield 4877/8

Telegrams:
Quality, Enfield

SHUTTER CONTRACTORS LTD.

LINCOLN WORKS
ENFIELD

MANUFACTURERS OF

Quality

**ROLLING SHUTTERS
IN STEEL, WOOD &
ALUMINIUM ALLOY
FOR ALL TYPES OF BUILDINGS**

APPROVED MANUFACTURERS TO
F.O.C. AND L.C.C. REQUIREMENTS

CONTRACTORS TO
H.M. GOVERNMENT—ALL DEPARTMENTS
PUBLIC UTILITY COMPANIES, COUNCILS
PRINCIPAL RAILWAYS, INSTITUTIONS
Etc.

THE MOST ATTRACTIVE FLOORING EVER PRODUCED!



Here's POLYFLEX-POLYVINYL, the sensational plastic floor that can be laid on ANY surface. Ready mixed for laying it has a beautiful marbled veining that forms as you spread it! An automatic choice for every Kitchen, Bathroom or Hall and ideal for living rooms, offices and restaurants for it is jointless and thoroughly hygienic. GUARANTEED not to crack, Lift or Craze, POLYFLEX is impervious to grease and oils.

THE ORIGINAL



IS GUARANTEED!

Available in a range of glorious
colours and marbled veining.

SEND FOR BROCHURE

POLYFLEX FLOORING CO. 48, High Street,
Guildford, SURREY.





Charterstone

The LIQUID STONE PAINT

The perfect coating for exterior and interior concrete, brick and stone surfaces. Water and weather resisting. Rock hard—decorative—easy to apply—it can be stippled in a variety of effects.

Shade cards and descriptive literature of this and other products from the sole manufacturers—

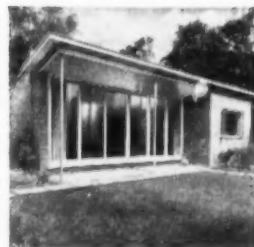
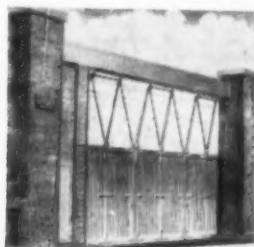
CHARLES TURNER & SON LTD

BLOOMSBURY HOUSE, 165 HIGH HOLBORN LONDON, W.C.1

IF YOU'RE THINKING OF SLIDING DOORS

... think how much
HILLALDAM can help you

There are so many ways of making a door slide that we have written a book on the subject. It is a thick and handsome volume, crammed with working drawings, technical data and pictures. One hundred and twenty-one pages, many in colour. Architects tell us that they constantly thumb through it for inspiration and guidance. If you are not yet an authority on sliding doors please let us know—a parcel of literature shall be yours. Then you will know as much as the next man, or more, of course, if he didn't write to Hill Aldam.



HILLALDAM

FOR EVERY DOOR THAT SLIDES

E. HILL ALDAM AND COMPANY LIMITED

THE SLIDING DOOR PEOPLE

BRITANNIC WORKS, HASLEMERE AVENUE, LONDON, S.W.18

Telephone: Wimbledon 8080 (5 lines) Telegrams: "Aldamillo" Put. London

OFFICIAL APPOINTMENTS

Rate 1/6 per line, minimum 3/-

APPOINTMENTS

The engagement of persons answering these advertisements must be made through the local office of the Ministry of Labour and National Service, etc., if the applicant is a man aged 18-64 or a woman aged 18-55 inclusive, unless he or she or the employer is exempted from the provisions of The Notification of Vacancies Order, 1952.

MINISTRY OF WORKS.

ARCHITECTURAL ASSISTANTS required for drawing offices in London, Edinburgh and various provincial offices, including Aldermaston, Berks; Harwell, Berks; Nancekuke, Cornwall; Ranshill, Notts; and Bishopston, Renfrew.

Candidates must have had at least three years' architectural training, some experience in an architect's office, and be of Intermediate R.I.B.A. standard.

London salary £442-£695 per annum. Rates elsewhere slightly less. Starting pay according to age and experience. Prospects of promotion and establishment.

State age, full details of training and experience and office desired, to E. Bedford, Esq., C.V.O., A.R.I.B.A., Chief Architect, Ministry of Works, W.G.10/C.A.10(G), Abell House, John Islip Street, London, S.W.1. [8537]

MINISTRY OF WORKS.

LEADING ARCHITECTURAL ASSISTANTS required for drawing offices in the Chief Architect's Division in London, Edinburgh and various provincial offices.

Candidates must have had at least three years' architectural training, good experience in an architect's office, and be of Intermediate R.I.B.A. standard. London salary £710 to £834 per annum. Rates elsewhere slightly less. Starting pay according to experience. Prospects of promotion and establishment.

State age, full details of training and experience and office desired, to E. Bedford, Esq., C.V.O., A.R.I.B.A., Chief Architect, Ministry of Works, W.G.10/C.A.10(G), Abell House, John Islip Street, London, S.W.1. [8525]

MINISTRY OF WORKS.

ARCHITECTURAL ASSISTANTS required for drawing office of the Ancient Monuments Branch in London.

Candidates must have had at least three years' architectural training, some experience in an architect's office, and be of Intermediate R.I.B.A. standard. They must also have experience of building and site surveying, a sound knowledge of construction and a live interest in historic architecture. Theodolite and levelling knowledge are desirable.

Salary £412 to £695 per annum. Starting pay according to age and experience. Prospects of promotion and permanency.

State age and full details of training and experience to Chief Architect, Ministry of Works, W.G.10/C.A.10(D), Abell House, John Islip St., London, S.W.1. [8609]

LONDON COUNTY COUNCIL REQUIRES

(i) **ARCHITECTURAL ASSISTANTS** for the preparation of surveys, sketch schemes, working drawings and specifications for buildings and ancillary works in parks and open spaces, and

(ii) **LANDSCAPE DESIGNERS** for the preparation of surveys, sketch schemes, working drawings and specifications for the laying out of parks and open spaces and garden areas to housing estates. Salaries up to £688 according to qualifications and experience. Application forms from Chief Officer, Parks Dept., Spring Gdns., S.W.1. (1622). [8656]

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

VACANCIES for **ARCHITECTS**, Grade III (up to £892 10s), and **ARCHITECTURAL ASSISTANTS** (up to £739 10s) in Schools and Housing Divisions.

Particulars and application forms from Architect (AR/EK/A/3), County Hall, S.E.1. (1058). [0146]

ANNOUNCEMENTS • CONTRACTS • TENDERS

Close for press 1st post Monday for following Thursday Issue

APPOINTMENTS—contd.

THE UNIVERSITY OF LIVERPOOL

Applications are invited for the following posts:—

(a) Leverhulme Research Fellow and Lecturer in the Department of Civic Design, at an initial salary within the range £550-£1,000 per annum, according to age, qualifications and experience, tenable normally for two years and renewable for a third year.

(b) Leverhulme Research Fellow in the School of Architecture or Department of Civic Design, tenable for one year at a value of £500, renewable for a second year at a value of £550.

The successful candidates for both Fellowships will be required to take part in a research programme under the general direction of the Head of the Department. This research programme includes problems of town planning, architecture and landscape design. Successful candidates will be expected to take up their duties on 1st February, 1955, or as soon thereafter as possible.

Applications, stating age, details of qualifications and experience and whether National Service requirements have been fulfilled, together with the names of three referees, should be received not later than 15th January, 1955, by the undersigned, from whom further particulars of each post may be obtained.

STANLEY DUMBELL,
Registrar. [8641]

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Architect Grade III. Salary up to £892 10s, for work in connection with recording of buildings of architectural and historic interest, the survey of London, and general record purposes. Candidates should have special knowledge of the history of architecture in England together with first-class experience in the preparation of measured drawings of buildings.

Architectural Assistant. Preferably A.R.I.B.A. or equivalent, with an interest in historic buildings for work of maintenance to such buildings owned by the Council. Salary up to £739 10s.

Particulars and application form, returnable by January 8, 1955, from the Architect, (AR/EK/HB/4), the County Hall, S.E.1. (1640). [8660]

MISCELLANEOUS SECTION

RATE: 1/6d. per line, minimum 3/-, average line 6 words. Each paragraph charged separately.

BOX NOS. add 2 words plus 1/- for registration and forwarding replies which should be addressed c/o, "The Architect & Building News," Dorset House, Stamford Street, London, S.E.1.

PRESS DAY Monday. Remittances payable to Iliffe & Sons Ltd., Dorset House, Stamford Street, London, S.E.1.

No responsibility accepted for errors.

ARCHITECTURAL APPOINTMENTS VACANT

EXPERIENCED Assistant required by Bromilow, White & Smeeton, Architects, 72, Newhall Street, Birmingham, 3. [8661]

ARCHITECT required for estate development, Coventry. Permanent, progressive position for right man. Salary and bonus. House available. Age, experience, qualifications and salary required to Box 0857, c/o A. & B.N. [8663]

SENIOR Architectural Assistant is required with good practical experience for a responsible position in a small city office with mixed practice. Write stating qualifications, practical experience, age and salary required to Box 0765, c/o A. & B.N. [8639]

ARCHITECTURAL APPOINTMENTS VACANT—contd.

SENIOR and Junior Assistants required in busy architect's office on countrywide work of all types. Applicants for senior posts should be Associates of the R.I.B.A. or qualified. Applicants for junior posts should be at or near intermediate standard.—Apply, J. G. L. Poulson, L.R.I.B.A., 29, Ropergate, Pontefract. [8655]

MIDLOTHIAN COUNTY COUNCIL require Architectural Assistants with sound knowledge of housing and school buildings. Gradings according to ability and experience up to A.P.T. VIII. All posts superannuable. Applications with full particulars and copy testimonials to County Clerk, County Buildings, George IV Bridge, Edinburgh, 1. [8659]

ARCHITECTURAL Assistants required by B.B.C. in London for work on design of studio, transmitter and office premises. Candidates should be up to intermediate or final R.I.B.A. standard and have had some design office experience. Salary in scales £545 to £755 or £645 to £880 according to qualifications and experience. Requests for application forms to Engineering Establishment Officer, Broadcasting House, London, W.1, within 7 days, quoting Ref. E.22, A.B.N. [8662]

SITUATIONS VACANT

ASSISTANT required in busy practice in West End, in early '20s, about Intermediate R.I.B.A. standard; excellent opportunities for gaining all-round experience.—Box 0672, c/o A. & B.N. [8636]

SHOPFITTING Draughtsman-Designer to take charge of design and drawing office of Messrs. Brooks Robinson in Melbourne, Australia (Mr. Hudson), a well established firm specialising in modern shopfitting, architectural metal work, decorative glass, etc. Applicant should be a qualified draughtsman and capable of store layout and varied design work of high quality. Experience with a first-class firm of shopfitters in Britain an advantage. Salary offered to suitable applicant about £A1,000 p.a. Contract could be discussed. Assisted passage.—Write in first instance with full details to O. W. Roskill, Industrial Consultants, 14 Great College Street, London, S.W.1. [8657]

PARTNERSHIP

LONDON architects seek partnership with west country firm to develop present connections in that area.—Box 0820, c/o A. & B.N. [8658]

CONTRACTS WANTED

SUB-CONTRACTS wanted for steel bending and fixing, labour only.—Apply L. A. Gale & Partner, 17, Hambro Rd., Streatham, S.W.16. [8368]

FOR SALE

WE specialise in white and coloured urinal sets. Let us quote you.—Thos. Lord, Ltd., Mitella Street, Burnley. [0149]

JOINTLESS composition flooring in attractive colour range—quotations free.—Full particulars from the Liotex Asbestos Flooring Co., Ltd., 3, Corbetts Passage, London, S.E.16 (Dept. A), Bermondsey 4341-2-3. [8622]

ALL hardwood mouldings, plain and embossed, embossed ornaments and dowels; send for catalogue and to-day's lowest trade prices.—Dareve's Moulding Mills, Ltd., 60, Pownall Road, Dalston, E.8. Clissold 1543/4. [0142]

INSURANCE

ARCHITECTS' Indemnity Insurance effected. Please write for Proposal Form to E. J. SAXBY, Incorporated Insurance Broker, 37a, Carfax, Horsham, Sussex. Tel. 990. [8549]

AN INVALUABLE REFERENCE FOR THE ARCHITECT'S LIBRARY

Structural Economy FOR THE ARCHITECT AND BUILDER

By GEORGE FAIRWEATHER, F.R.I.B.A.

This book is a critical analysis of traditional forms of construction, first identifying the main characteristics of buildings as determined by the materials and methods used in their construction. It then examines these characteristics in relation to their functions and the standards of performance required, and suggests improvements where these forms of construction fall short of present-day requirements.

For the purposes of this analysis, two basically different systems have been selected to repre-

sent the main features of traditional construction—masonry and light-frame construction. These are examined in several of their more common applications, and the limitations inherent in their use are identified. The present building laws are liable to restrict the full development of the new constructional methods, and the last chapter of the book summarises the regulations now in force, and suggests improvements.

21s. net. By post 22s. 1d.

Published for THE ARCHITECT & BUILDING NEWS

Obtainable from all good booksellers or direct from:

THE PUBLISHING DEPT., DORSET HOUSE, STAMFORD ST., LONDON, S.E.1

HATHERNWARE

The toughest FAIENCE made



HATHERNWARE LIMITED, LOUGHBOROUGH, LEICESTERSHIRE

SAMUEL ELLIOTT & SONS
(READING) LTD.

TELEPHONE
READING
71536 (3 LINES)

Elliott's of Reading

Craftsmen in Wood and Metal

Many Types
and Sizes...

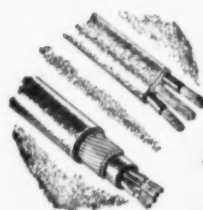
EBONITE FLOORING STRIP

EBONITE
SINK
WASTES

ROD TUBE
SHEET AND
TURNED PARTS

Manufacturers:

The BRITISH EBNITE CO. LTD.
NIGHTINGALE ROAD, HANWELL, LONDON, W.7
ENQUIRIES INVITED EALING Q125



A BETTER ELECTRICAL INSTALLATION AT LOWER COST WITH ASHATHENE CABLE



Ashathene can be laid directly into cement or plaster without any detrimental effect occurring.

Ashathene is also available in a wide range with single or double wire armoured with an overall p.v.c. sheath. Special sealing glands are available which positively prevent moisture ingress into distribution boxes, etc.

Ashathene is being supplied in large quantities to the National Coal Board, Electricity Boards, etc., and is extensively used in housing estates and industrial projects, including chemical and plant works for which it has special advantages.

Ashathene is manufactured to B.S.S. 1557.

**NO WONDER ASHATHENE IS
BEING USED MORE THAN EVER!**

manufactured by

AERIALITE LTD., CASTLE WORKS, STALYBRIDGE, CHESHIRE

Depots at:—LONDON · BRISTOL · BIRMINGHAM
MANCHESTER · NEWCASTLE · GLASGOW

Brysal

MANUFACTURED BY BRITISH ROPES LTD.

Brysal Woven Floor Fabric

For hard wear and economy. Many colours; various widths. In use in schools, hospitals, offices and homes.

Sample and details from Main Distributors

ROSE, SALISBURY & COMPANY LTD.,
409, HOLLOWAY ROAD, LONDON, N.7.

Telephone: NORTH 3162/1945.



INDEX TO ADVERTISERS

Official Notices, Tenders, Auction, Legal and Miscellaneous Appointments on page 28

| | | | | | | | |
|---|----|--|----|--|----|---|----|
| Adamite Co., Ltd., The | 21 | Clarke Ellard Engineering Co., Ltd. | 2 | Hangers Paints, Ltd. | 24 | Penfold Fencing & Engineering, Ltd. | 10 |
| Adams Robert (Victor), Ltd. | 26 | Coverite (Asphalts), Ltd. | 23 | Hariton Man. Co. | 21 | Pickerings, Ltd. | 17 |
| Aerialite, Ltd. | 30 | Cozens Ventilators, Ltd. | 23 | Harvey, G. A., & Co. (London), Ltd. | 8 | Rose, Salisbury | 30 |
| Aldam Hill, E., & Co., Ltd. | 27 | Cuttings, R. C. | 23 | Hathernware, Ltd. | 29 | Rudkin, S. O., & Co., Ltd. | 21 |
| Benham & Sons, Ltd. | 18 | D.S. Plugs, Ltd. | 8 | Haywards, Ltd. | 22 | Schaverien Sheet Metal & Engineering Co., Ltd. | 14 |
| Blackwell, Wyckham, Ltd. | 23 | Dunlop & Ranken, Ltd. | 22 | Hope, Henry, & Sons, Ltd. | 15 | Shutter Contractors, Ltd. | 26 |
| Bostwick Gate & Sonnet Co., Ltd. | 21 | Economic House Drainage Rpg. Co., Ltd., The | 22 | Hutchings, Engineers, Ltd. | 14 | Soundproof Construction | 23 |
| Brady, G., & Co., Ltd. | 21 | Edison Swan Electric Co., Ltd., The | 4 | Hunter Douglas Holland (Luxaflex) | 9 | Staedtler, J. S., Ltd. | 18 |
| Briggs, Wm., & Sons, Ltd. | 19 | Elliott, Samuel & Son (Reading), Ltd. | 29 | Jones, T. C., & Co., Ltd. | 6 | Stramit Boards, Ltd. | 12 |
| British Ebonite Co., Ltd. | 30 | Ellis School of Architecture | 23 | King, J. A., & Co., Ltd. | 25 | Surflex Flooring Co. | 26 |
| British Metal Windows Man. Assoc. | 20 | Engert & Rolfe, Ltd. | 21 | Kinnear Shutters | 7 | Tarmac, Ltd., Vinculum Dept. | 10 |
| British Reinforced Concrete Engineering Co., Ltd., The | 26 | Freeman, Joseph, Sons & Co., Ltd. | 5 | Lacrinoid Products, Ltd. | 24 | Temperature, Ltd. | 14 |
| Buckwyn Construction, Ltd. | 26 | Gibson, Arthur L., & Co., Ltd. | 7 | Margolis, M. | 23 | Timber Development Assoc. | 16 |
| Cellon, Ltd. | 23 | Gray, J. W., & Co., Ltd. | 22 | Mather & Platt, Ltd. | 11 | Turner, Chas., & Son, Ltd. | 27 |
| Chatwood Safe & Engineering Co., Ltd. | 25 | | | McNeill, F., & Co., Ltd. | 13 | True Flue, Ltd. | 23 |
| Chubb & Son's Co., Ltd. | 13 | | | Mullen & Lumsden, Ltd. | 21 | Vardale Fencing Co., Ltd. | 23 |
| | | | | Nu-Swift, Ltd. | 22 | Williams & Williams, Ltd. | 1 |
| | | | | | | Winnev. George, & Co., Ltd. | 3 |

Printed in Great Britain for the publishers, ILIFFE AND SONS LTD., Dorset House, Stamford Street, London, S.E.1. by CORNWALL PRESS LTD., Paris Garden, Stamford Street, London, S.E.1.

NOW YOU CAN OBTAIN—



— FOR "CONCRETE" CONSTRUCTION

3' x 2' CEMENT SHUTTERING

Face plate constructed from 14G. Sheet Steel bounded all round by 1" x 1" x 3/16ths black mild steel angle and tack welded at regular pitch. A stiffening member of 1" x 1" x 3/16ths black mild steel. Tee section is also welded lengthwise to the main frame and face plate.

If additional rigidity is required, Tee section can also be welded at right angles to the main stiffener for a small extra cost.

AS USED BY THE
LEADING FLOOR
SPECIALISTS

Messrs. CAXTON FLOORS LTD.



Write for Quotations to DEPT. ABN/13

SCHAUEREN SHEET METAL & ENGINEERING CO., LTD.

MOARAIN HOUSE,

CAMBRIDGE HEATH ROAD, BETHNAL GREEN, LONDON, E.2.

Telephone : BISHopsgate 0877, 0878, 0339, 0330

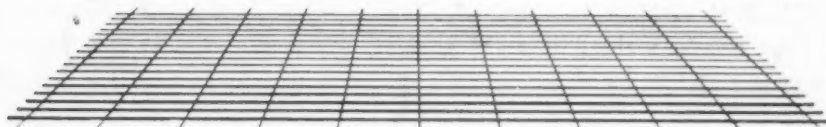


*Cement
goes
further
with*

... for example — 4 ins. of concrete reinforced with BRC No. 9 Fabric is equal in strength to 8 ins. unreinforced. The saving in cement, time and labour makes reinforcement an essential for practically all types of concrete work.

BRC

WELDED FABRIC



THE BRITISH REINFORCED CONCRETE ENGINEERING CO. LTD., STAFFORD
London, Birmingham, Bristol, Leeds, Leicester, Manchester, Newcastle, Cardiff, Glasgow, Dublin, Belfast